


OHIO UNIVERSITY

UNDERGRADUATE CATALOG 2006-2008





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Ohio University Undergraduate Catalog 2006–2008

The fees, programs, and requirements contained in this catalog are effective with the 2006 fall quarter. They are necessarily subject to change at the discretion of Ohio University. It is the student's responsibility to know and follow current requirements and procedures at the departmental, College, and University levels.

Ohio University is an affirmative action institution.

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Ohio University Mission Statement

Ohio University is a public university providing a broad range of educational programs and services. As an academic community, Ohio University holds the intellectual and personal growth of the individual to be a central purpose. Its programs are designed to broaden perspectives, enrich awareness, deepen understanding, establish disciplined habits of thought, prepare for meaningful careers and, thus, to help develop individuals who are informed, responsible, productive citizens.

Undergraduate Education

Ohio University offers undergraduate instruction on both the Athens campus and the regional campuses. Undergraduate programs, designed to contribute to intellectual and personal development and career goals of students, emphasize liberal studies.

Undergraduate major programs, pre-professional, and professional programs prepare students for employment in a variety of careers and for continued study. Two-year technical and associate's degree programs, reflecting employment opportunities, as well as the general career interests of students, are taught primarily at the regional campuses.

At the Athens campus, instruction is combined with residence life and other extracurricular programs in an effort to create a collegiate experience integrating learning and living.

Academic Advising

Ohio University recognizes academic advising to be a central element of the educational experience of its undergraduate students. Advising is a collaborative relationship for which advisors and students share responsibility and through which students create sound educational plans consistent with their academic, career, and personal goals. Advisors are responsible for being accessible and responsive to students, and for providing accurate, timely information. Students are responsible for being prepared for advising sessions, and for understanding University and major requirements.

Graduate and Professional Education

Ohio University offers graduate and professional education. The primary forms of activity are advanced and specialized courses of study, supervised practical experience, and research.

The essential concentration of faculty, material, and space resources dictates that the activity associated with graduate and professional education will be centered on the Athens campus. This activity is not limited to that campus; research and instruction are carried out at various locations.

Scholarship, Research, and Creative Activity

Ohio University is a center for scholarship, research, and creative activity involving the creation, testing, and dissemination of knowledge, understanding, expressions, and technique.

As a public university, Ohio University has a particular responsibility to address

societal issues and needs through such scholarship, research, and creative activity. The scholarly and artistic activity of the faculty enhances the teaching function at all levels of the student experience.

Extended Community

Ohio University serves an extended community. The public service mission of the University, expressed in such activities as public broadcasting and continuing education programs, reflects the responsibility of the University to serve the ongoing educational needs of the region. The regional campuses perform a critical role in serving this extended community.

The University has state-wide responsibility for an extended university program using independent study through correspondence.

It is the purpose of these extended University programs to serve a diverse range of educational needs, from professional groups requiring continuing courses of study related to the practice of their professions, to individuals desiring occasional or special interest study.

Ohio University contributes to cultural and economic development, health care, and to other human services.

Adopted January 15, 1977, and reaffirmed January 1988.

Academic advising statement added March 2005.

A Commitment to Diversity

Ohio University is committed to promoting an atmosphere where understanding and acceptance of cultural and ethnic differences are ensured.

President Roderick J. McDavis underscored the University's ongoing commitment to promoting diversity by citing its importance in his 2004 inaugural address. A climate that represents and embraces different cultures enhances Ohio University's ability to provide all of its students with the experiences necessary to successfully compete and achieve in an increasingly diverse and complex society. There is no better way to learn about the world than to create an environment where students of diverse backgrounds—and indeed, students from all over the world—study, live, learn, and socialize together.

Ohio University is bound morally, emotionally, and intellectually to pursue the realization of a vision of real com-

munity. As a result, it is committed to equal opportunity for all people and is pledged to take direct and affirmative action to achieve that goal. In upholding its commitment, Ohio University will not accept racism, sexism, homophobia, bigotry, or other forms of violations of human rights. Such actions are inconsistent with, and detrimental to, the values that we hold essential as an institution of higher learning. All students, faculty, and staff of Ohio University are expected to uphold the University's commitment to a just and diverse community and to take a leadership role in ensuring an atmosphere of equality.

Contents

- 2 Mission Statement
- 2 A Commitment to Diversity
- 4 Academic Calendar

Guidelines and General Information

- 6 Admissions
- 12 Schedule of Fees
- 17 Financial Aid
- 24 Academic Policies and Procedures
- 24 Precollege Orientation
- 24 Registration Information
- 25 Enrollment Information
- 28 Grading Information
- 31 Academic Status
- 32 Student Records Information
- 34 Graduation Requirements—
University Wide
- 34 Catalog of Entry
- 34 Requirements
- 34 General Education Requirements
- 36 Residence Requirements
- 36 In Absentia
- 36 Second Bachelor's Degree
- 36 Graduation Procedures
- 37 Academic Opportunities—
University Wide
- 39 Services for Students
Listed alphabetically

Colleges and Curricula

- 48 Academic Organization
- 50 Major Codes
- 54 Minor Codes
- 55 Certificate Programs
- 57 Arts and Sciences
- 105 Business
- 115 Communication
- 131 Education
- 146 Engineering and Technology
- 162 Fine Arts
- 184 Health and Human Services
- 209 Honors Tutorial College
- 211 University College
- 218 International Studies
- 219 Lifelong Learning
- 221 University Outreach and
Regional Campuses

Courses of Instruction

- 230 Areas of study listed alphabetically

Appendix

- 334 Departmental Faculty
- 341 Governing Boards
- 341 University Administration
- 342 Ohio Residency
- 344 Student Records Policy

Index 346

Telephone Numbers

The area code for all campus numbers is 740.

The University switchboard number is 593.1000.

University Services

- 593.4100 Admissions
- 593.4300 Alumni Relations
- 593.1174 Athletic Department
- 800.575.4100 Athletic Ticket Office
- 593.4130 Bursar
- 593.9140 Disability Services
- 593.4141 Financial Aid and Scholarships
- 593.4800 Fine Arts Box Office
- 593.4090 Housing
- 593.4027 Multicultural Programs
- 593.1780 University Events Box Office
- 593.4191 Registrar's Office
- 593.4025 Student Activities
- 593.1660 Student Health Service
- 593.1911 University Police
- 593.4186 Veterans Affairs
- 593.2097 Visitors Center

Colleges

- 593.2850 Arts and Sciences
- 593.2002 Business
- 593.4883 Communication
- 593.4400 Education
- 593.1474 Engineering and Technology
- 593.1808 Fine Arts
- 593.9334 Health and Human Services
- 593.2723 Honors Tutorial College
- 593.1935 University College

Academic Calendar 2006–2007

For additional academic calendar information, visit <http://www.ohio.edu/registrar/>.
Dates are subject to change at the discretion of the Ohio University Board of Trustees.

Fall Quarter

September 5, Tuesday
FALL QUARTER OPENING DATE

November 10, Friday
Veterans Day holiday observed
(University offices officially
closed; classes not in session)

November 14, Tuesday
Last day of classes for fall quarter

November 15, Wednesday
Reading Day

November 16–21
Fall quarter examination period

November 22, Wednesday
FALL QUARTER CLOSING DATE

Winter Quarter

January 3, Wednesday
WINTER QUARTER
OPENING DATE

January 15, Monday
Martin Luther King Day
(University offices officially
closed; classes not in session)

March 10, Saturday
Last day of classes for winter
quarter

March 12–16
Winter quarter examination
period

March 17, Saturday
WINTER QUARTER
CLOSING DATE

Spring Quarter

March 26, Monday
SPRING QUARTER OPENING DATE

May 28, Monday
Memorial Day (University offices
officially closed; classes not in
session)

June 2, Saturday
Last day of classes for spring
quarter
Annual Medical Commencement

June 4–8
Spring quarter examination
period

June 8, Friday
Annual Graduate Commencement

June 9, Saturday
Annual Undergraduate
Commencements
SPRING QUARTER CLOSING DATE

Summer Quarter

First Summer Session

June 18, Monday
FIRST SUMMER SESSION
OPENING DATE

July 4, Wednesday
Independence Day holiday
(University offices officially closed;
classes not in session)

July 20, Friday
Last day of classes for first
summer session
Note: Final examinations are
scheduled for the last meeting
time of each individual class.

July 21, Saturday
FIRST SUMMER SESSION
CLOSING DATE

Second Summer Session

July 23, Monday
SECOND SUMMER SESSION
OPENING DATE

August 24, Friday
Last day of classes for second
summer session
Note: Final examinations are
scheduled for the last meeting
time of each individual class.

August 25, Saturday
SECOND SUMMER SESSION
CLOSING DATE

Full Summer Quarter

June 18, Monday
FULL SUMMER QUARTER
OPENING DATE

July 4, Wednesday
Independence Day holiday
(University offices officially
closed; classes not in session)

August 24, Friday
Last day of classes for full
Summer Quarter
Note: Final examinations are
scheduled for the last meeting
time of each individual class.

August 25, Saturday
FULL SUMMER QUARTER
CLOSING DATE

Academic Calendar 2007–2008 *(Tentative)*

For additional academic calendar information, visit <http://www.ohio.edu/registrar/>.
Dates are subject to change at the discretion of the Ohio University Board of Trustees.

Fall Quarter

September 4, Tuesday
FALL QUARTER OPENING DATE

November 12, Monday
Veterans Day holiday observed
(University offices officially closed;
classes not in session)

November 13, Tuesday
Last day of classes for fall quarter

November 14, Wednesday
Reading Day

November 15–20
Fall quarter examination period

November 21, Wednesday
FALL QUARTER CLOSING DATE

Winter Quarter

January 7, Monday
WINTER QUARTER OPENING DATE

January 21, Monday
Martin Luther King Day
(University offices officially
closed; classes not in session)

March 15, Saturday
Last day of classes for winter
quarter

March 17–21
Winter quarter examination
period

March 22, Saturday
WINTER QUARTER
CLOSING DATE

Spring Quarter

March 31, Monday
SPRING QUARTER OPENING DATE

May 26, Monday
Memorial Day (University offices
officially closed; classes not in
session)

June 7, Saturday
Last day of classes for spring
quarter
Annual Medical Commencement

June 9–13
Spring quarter examination
period

June 13, Friday
Annual Graduate Commencement

June 14, Saturday
Annual Undergraduate
Commencements
SPRING QUARTER CLOSING DATE

Summer Quarter

First Summer Session

June 23, Monday
FIRST SUMMER SESSION
OPENING DATE

July 4, Friday
Independence Day holiday
(University offices officially closed;
classes not in session)

July 25, Friday
Last day of classes for first
summer session
Note: Final examinations are
scheduled for the last meeting
time of each individual class.

July 26, Saturday
FIRST SUMMER SESSION
CLOSING DATE

Second Summer Session

July 28, Monday
SECOND SUMMER SESSION
OPENING DATE

August 29, Friday
Last day of classes for second
summer session
Note: Final examinations are
scheduled for the last meeting
time of each individual class.

August 30, Saturday
SECOND SUMMER SESSION
CLOSING DATE

Full Summer Quarter

June 23, Monday
FULL SUMMER QUARTER
OPENING DATE

July 4, Friday
Independence Day holiday
(University offices officially
closed; classes not in session)

August 29, Friday
Last day of classes for full
Summer Quarter
Note: Final examinations are
scheduled for the last meeting
time of each individual class.

August 30, Saturday
FULL SUMMER QUARTER
CLOSING DATE

Guidelines and General Information

Undergraduate Admissions

This section outlines general information about applying for admission to Ohio University. Contact Undergraduate Admissions during regular office hours for more specific information or for application materials. You may also request application materials on the Web, by e-mail, or by fax. Our applications are also available online. Visit our Web site to apply electronically, to download and print an application, or to request information.

Undergraduate Admissions
Ohio University
Chubb Hall 120
Athens OH 45701-2979
Telephone 740.593.4100
Fax 740.593.0560
E-mail admissions@ohio.edu
Web <http://www.ohio.edu/admissions/>

Admission Requirements and Procedures

Selective and Limited Admission

If you are planning to apply to Ohio University, please note that admission is selective—it is granted to the best qualified candidates—and admission to the University does not guarantee admission into a specific program of study. Contact Undergraduate Admissions or refer to the Colleges and Curricula section of this catalog for each college's or school's specific requirements.

Categories of Admission

Freshman Applicant. If you (1) have or soon will receive a high school diploma from a chartered or accredited secondary school or a General Education Development (GED) diploma, and (2) have not been enrolled for 12 or more quarter hours (or 9 or more semester hours) of coursework at a college or university since completing secondary school, you are considered a freshman applicant. However, if you have earned credit for college courses as a high school student through one of the post-secondary options or other concurrent enrollment programs, you are still considered a freshman applicant with transfer credit.

You must have a high school diploma or a GED diploma by the time you plan to enter college. Consideration for admission is based upon your high school performance (class rank, grade-point average, and curriculum); aptitude test scores (ACT or SAT); the strength of your high school program; and special ability, talent, or achievement.

If you are considering applying for admission to Ohio University, your high school background should include these college-prep courses:

- 1 Four years of English, with an emphasis on composition;
- 2 Three years of mathematics (algebra I, algebra II, plane geometry; precalculus is encouraged for prospective engineering or business majors), one of which should be taken in the senior year;
- 3 Three years of social sciences (history, social studies, etc.);
- 4 Three years of natural sciences (physics and chemistry are encouraged if you plan to pursue an engineering major);
- 5 Two years of foreign language;
- 6 One year of visual or performing arts (art, band, chorus, music, orchestra, theater, etc.).

Some academic departments may have additional admission requirements. Please contact Undergraduate Admissions or refer to the Colleges and Curricula section of this catalog for further details.

Exceptions to this program of study may be made in light of overall academic preparedness.

Home schooled students should visit the Undergraduate Admissions Web site or call for special procedures required of students who have pursued home schooling.

Freshman applicants who have been out of high school for more than one year are not required to submit test scores unless requested by Undergraduate Admissions.

To apply, submit a completed application for admission, the nonrefundable application fee, ACT or SAT scores (sent directly from the testing agency), and an official high school transcript (sent directly to Undergraduate Admissions from your high school) or GED score report (sent directly to Undergraduate

Admissions from the appropriate state GED office, official testing center, or GED Testing Service).

If you are on a non-immigrant visa, you should also review the international applicant section.

If you are financially disadvantaged, the application fee may be waived upon written recommendation from your high school guidance counselor.

Beginning in fall and continuing, those who have submitted complete application materials will be notified of their admission status for fall quarter. Admission decisions and notifications are made on a rolling basis for all quarters.

If any special conditions apply to your enrollment, they will be clearly stated in the letter of admission.

Following acceptance for admission, you will receive information about financial aid (if you apply for financial aid) and residence hall contract information and agreement form. Since all freshmen are required to live in University housing, you should submit the \$200 residence hall deposit (by May 1 if you are applying for fall quarter) to confirm your enrollment. Failure to do so may result in cancellation of your admission offer. If space remains, late housing contracts will be accepted and require the \$200 deposit until July 1, after which full payment of the housing charges will be necessary to secure housing. Please refer to the **Housing** section in this catalog to examine housing eligibility and exemption regulations. Refunds of housing deposits will be made until May 1. You and your parents will also receive details about the Precollege Orientation program for new students in mid-May, provided your deposit or exemption request has been received.

Transfer Applicant. All campuses of Ohio University consider you to be a transfer applicant if you have completed more than 12 quarter hours or 9 semester hours at another institution after you graduated from high school. If you complete college-level courses concurrently with high school you are considered a freshman applicant with transfer credit.

To be considered for transfer admission at the Athens campus of Ohio University, you must have obtained a minimum accumulative g.p.a. of 2.5 on a 4.0 scale in academic coursework from a regionally accredited institution. If you have completed less than 30 quarter or 20 semester hours of transferable coursework, or your coursework has been technical in nature, you must also meet freshman admission requirements. You

must be in good standing with, and eligible to return to, your previous institution(s).

Admission as a transfer student does not guarantee admission to all majors, minors, or fields of concentration. Some colleges and programs at Ohio University have additional requirements for transfer student admission, including a g.p.a. higher than 2.5. Note that some programs may require a separate application that must be approved prior to official admission to the University. Please refer to the Colleges and Curricula section of this catalog for each college's or school's specific transfer admission requirements.

Since most of our programs and procedures are set up to begin fall quarter, you are strongly encouraged to apply for that term.

To apply, submit a completed application for admission form and the non-refundable application fee. You must also arrange for official transcripts to be sent directly to Undergraduate Admissions from the registrar at each college or university you have attended. If you have completed less than 30 quarter or 20 semester hours of college-level work, an official high school transcript is also required.

ACT or SAT results are not required of students who have been out of secondary school for more than one year, unless specifically requested by Undergraduate Admissions.

Space is available in University residence halls for transfer students. After you have been accepted for admission, you will receive a housing contract. Students with fewer than 90 quarter hours of credit are required to live in the residence halls.

International Applicant. If you are on a non-immigrant visa, or will require one to study, you will be considered an international applicant. Admission requirements are the same as those for U.S. citizens and permanent residents and include completion of a college-preparatory, secondary school program with excellent grades. Students wishing to transfer should have a strong grade point average in all college-level work completed.

To apply, you will need to submit an application for admission, the non-refundable application fee, official secondary school records, ACT or SAT examination results if you have been out of secondary school for less than one year, and official records of any university-level work completed. Financial documentation demonstrating you

have sufficient funds to cover your educational and living expenses for a 12-month period must also be submitted before a visa certificate can be issued on your behalf. Please refer to <http://www.ohio.edu/admissions/intl.cfm> for specific information regarding the above items.

International applicants are not required to submit TOEFL results. If you are accepted for admission, you will be required to take an English placement test when you arrive on campus to determine if you will need additional English language instruction in the Ohio Program of Intensive English. If you need additional English language instruction, you may have to delay registering for academic classes until your English skills have improved enough to assure your success in the classroom.

When you are admitted, you will receive the appropriate materials for use in securing your student visa. Additional information, including the housing contract information, will be forwarded separately after your admission.

International student application materials may be obtained from Undergraduate Admissions, Ohio University, Chubb Hall 120, Athens OH, USA 45701-2979, telephone 740.593.4110. Applications are also available online at <http://www.ohio.edu/admissions/international/>. Further information about services for international students is available from the Office of International Student and Faculty Services, Ohio University, Scott Quad 176, Athens OH, USA 45701-2979, USA, telephone 740.593.4330.

High School Enrollment Options

Applicant. The State of Ohio, under Senate Bill 140 and House Bill 215, allows area students to enroll in college-level coursework prior to graduation from high school under the Post-Secondary Enrollment Options Program (PSEOP). If you are a high school student and meet the criteria stated below, you may enroll in University classes concurrently with your high school enrollment to earn college credit or both high school and college credit. Students must live within commuting distance to Ohio University in specific counties, must have completed at least 10 credit units as part of a college-preparatory curriculum in high school, and must pass all sections of the Ohio Graduation Test.

PSEOP offers students two options for enrolling: "Option A" allows high school students to enroll concurrently for college credit and high school credit. Students must rank in the top 40% of their high school class. Students enrolled in Option A are responsible

for tuition, fees, and textbook charges, and may enroll in any quarter, including summer.

"Option B" allows students to enroll concurrently and receive both high school credit and college credit. Students must rank in the top 25% of their high school class to enroll in Option B. Your local school district will indirectly pay tuition, fees, and textbook charges for those students enrolling in Option B. Option B students may enroll in any quarter except summer.

Additional information about the PSEOP, including the necessary application materials, is available online at <http://www.ohio.edu/admissions/forms/> or by calling Undergraduate Admissions at 740.593.4100.

Please note that if you have taken college courses as a high school student under one of these options and plan to apply for admission to Ohio University as a full-time student, you will need to apply as a freshman applicant, not a transfer applicant, even though you have already earned college credit. Credit earned at Ohio University under these options will become part of your permanent record and will be calculated into your accumulative grade point average.

Early Admission Applicant. Under special circumstances, Ohio University will consider admitting you as a regular University student after your junior year of high school, but before your high-school graduation. Submit a completed application for admission, the nonrefundable application fee, your high school transcripts, ACT or SAT scores (sent directly from the testing agency), a statement explaining your reasons for wanting to enroll, and a recommendation from your high school attesting to your readiness to begin college-level studies. You will be required to earn your high school diploma or GED diploma by the beginning of your sophomore year in college to continue University enrollment. Additional information on this option is available from the director of admissions.

Re-Enrolling Student. If you have previously attended one of Ohio University's campuses as a degree-seeking student but are not currently enrolled (excluding summer quarter) and wish to return as an undergraduate student, you are considered a re-enrolling student. Contact the Office of the Registrar for re-enrollment information at 740.593.4191.

If you have been dropped from the University, you will need to apply to the College in which you were last enrolled

to be reinstated; if your records have been placed on hold, you will need to make arrangements to resolve the situation through the appropriate office before re-enrollment can be considered.

To receive information about registration, contact the registrar's office at 740.593.4191. If you have attended another college or university since you were last enrolled at Ohio University, you should arrange to have a transcript sent to Undergraduate Admissions from each post-secondary institution you have attended during your absence from the University. Acceptance of such credit toward graduation requirements will be determined by the college in which you major.

Relocating Student. If you are currently attending one of Ohio University's regional campuses and wish to attend the Athens campus, you are considered a relocating student. Relocation is possible for any quarter, though you must have a g.p.a. of 2.0 or better to be eligible for relocation. Contact the Office of Student Services on your regional campus for additional information.

For on-campus housing, complete a Notice of Relocation to the Athens Campus form, relocating student form, available from the Housing office, or from the Student Services Office at your regional campus, and submit it to the Housing office on the Athens campus.

Non-degree Applicant. If you wish to carry a limited number of courses at the University during the regular academic year, and are not interested in earning a degree, you are considered a non-degree applicant. To apply, complete a non-degree application, available online and from Undergraduate Admissions. You must have a high school diploma or GED diploma to apply as a non-degree student. You will be required to submit copies of transcripts from high school, GED results, or previous post-secondary work. The application must be received at least two weeks before the first day of classes for the quarter for which you are applying. Transcripts must be received no later than one week before the first day of classes. Contact Undergraduate Admissions for eligibility requirements.

The University currently charges a nonrefundable application fee for non-degree applicants, although summer-only non-degree students are not charged. If you later wish to enter a degree program, you will need to reapply for admission.

If you wish to take courses in the summer only, contact the Office of Summer Sessions at 740.593.2583 or online at

<http://www.ohio.edu/summer/> for application requirements and materials.

Options For Receiving Credit

Several methods of receiving Ohio University credit for work previously completed or for general knowledge and experience are available. For further information on any of the following, contact the University Examiner, Ohio University, Chubb Hall 120, Athens OH 45701-2979, telephone 740.593.4100.

Credit for Advanced Placement (AP) and the College Level Examination Program (CLEP). If you have taken examinations provided by the Advanced Placement (AP) program of the College Board and achieved a score of three or higher, you may be able to receive Ohio University credit for your efforts. Scores must be sent directly from the College Board to Undergraduate Admissions. AP credit equivalency information is available online at <http://www.ohio.edu/admissions/transcredits/>.

Ohio University also participates in the College Level Examination Program (CLEP) sponsored by the College Board. Subject to approval by the appropriate department in each case, Ohio University will allow credit for satisfactory performance on the CLEP subject matter examinations, provided you take the examinations before you formally enroll in the University. Credit will not be awarded for CLEP exams taken after your enrollment in the University. The University does not award credit for scores achieved on the CLEP general examinations. Policies on credit for test scores are subject to change; check with Undergraduate Admissions for current information.

Detailed information about both the AP and CLEP programs is available from high school guidance offices or by contacting the College Board, Box 593, Princeton NJ 08540.

International Baccalaureate (IB). Ohio University will consider awarding up to 15 quarter hours of credit for each IB higher level examination graded 5 or above. Credit is not awarded for subsidiary examinations. An official transcript of results received is required for credit consideration. For further information, contact Undergraduate Admissions.

Experiential Learning and Course Credit by Examination. You also may be able to earn credit without attending formal classes through two programs offered by the University's Office of

Lifelong Learning: Experiential Learning and Course Credit by Examination.

Experiential Learning allows you to acquire credit for college-level experience gained through employment and community volunteer work by compiling a portfolio of learning that is reviewed by appropriate University faculty members and assigned a credit value. Course Credit by Examination allows you to study or review a given subject on your own. You are tested on the subject within six months of enrollment. A letter grade is assigned and credit is awarded based on your performance on the examination. Further information on Experiential Learning and Course Credit by Examination is available from the Office of Independent and Distance Learning Programs, telephone 740.593.2910 or 800.444.2910. (See also the Office of Lifelong Learning section of this catalog.)

Credit for Armed Forces Courses.

Some courses provided by the armed forces may earn college credit. *The Guide to the Evaluation of Educational Experience in the Armed Services*, published by the American Council on Education, is used to determine what credit might be granted. Blanket credit is not granted for military service, nor is credit granted for the Military Occupation Specialty (MOS). Veterans who served after October 1, 1981, must submit official documentation for credit consideration: Army veterans must submit an AARTS transcript; Marine Corp and Navy veterans must submit a S.M.A.R.T. transcript; Coast Guard veterans must submit a Coast Guard transcript; Air Force veterans must submit a Community College of the Air Force transcript. For additional information, or for instructions for personnel who served before October 1, 1981, contact Undergraduate Admissions, 740.593.4100.

Credit for Training Programs. Some courses offered by business and professional organizations are considered the equivalent of college courses, and you may receive transfer credit, subject to department or school approval, by presenting transcripts or certificates of completion from the training program. The National Guide to Educational Credit for Training Programs, published by the American Council on Education, is used to determine what credit can be granted. Contact Undergraduate Admissions for further information.

Transferring Credit

In accordance with the Articulation and Transfer Policy defined by House Bill 95, courses with "D-" or higher grades taken beginning Fall (September) 2005 will be added to a student's record. This policy impacts those transfer students admitted for winter quarter 2006 and after. Therefore, all college-level credit earned with a grade of "D-" (or equivalent) or higher at a state-supported institution located in Ohio is accepted as transfer credit at Ohio University. The manner in which this credit will apply to graduation requirements is determined by the College in which you major. Remedial courses and English courses taught in non-Anglophone countries are not transferable. Credit is only awarded after admission to the University as a degree-seeking student and upon receipt of official transcripts.

If you are transferring to Ohio University with credit from institution(s) outside the state of Ohio, normally courses in which you have earned a grade below "C-" are not acceptable for transfer. However, a course with a "D" grade will transfer if it meets two conditions: (1) The course was a specific prerequisite (as stated in the previous school's catalog) for a later course that you took in the same department; and (2) You earned a grade of "C-" or better in the later course. If you have coursework that meets these conditions, contact Undergraduate Admissions to arrange to receive credit.

Transfer students enter Ohio University with no g.p.a. on the academic record. However, your overall g.p.a. earned at other institutions may still be considered as part of the criteria for admission into certain programs.

Shortly after you have been accepted for admission as a transfer student, Undergraduate Admissions will send a tentative transfer credit evaluation report.

Institutional Transfer. The Ohio Board of Regents, following the directive of the Ohio General Assembly, developed a statewide policy to facilitate students' ability to transfer credits from one Ohio public college or university to another in order to avoid duplication of course requirements. Since independent colleges and universities in Ohio may or may not be participating in the transfer policy, students interested in transferring to independent institutions are encouraged to check with the college or university of their choice regarding transfer agreements.

Transfer Module. The Ohio Board of Regents' Transfer and Articulation Policy established the Transfer Module, which is a subset or entire set of a college or university's general education program. Transfer Module consists of 54 to 60 quarter hours (or 36 to 40 semester hours) of courses in the following areas: English, mathematics, arts and humanities, social and behavioral sciences, natural and physical sciences, and interdisciplinary study.

A Transfer Module completed at one college or university will automatically meet the requirements of the Transfer Module at another college or university once the student is admitted. Students may be required, however, to meet additional general education requirements at the institution to which they transfer. For example, a student who completes the Transfer Module at Institution S (sending institution) and then transfers to Institution R (receiving institution) is said to have completed the Transfer Module portion of Institution R's general education program. Institution R, however, may require additional general education courses beyond the Transfer Module.

Since many degree programs require specific courses that may be taken as a part of the general education or Transfer Module program at an institution, students are encouraged to meet with an academic advisor at the institution to which they plan to transfer early in their academic career. For example, students who will be majoring in any of the majors in the College of Business and Administration at the receiving institution should take Economics 201, 202, and 203 (or equivalent course at another institution) rather than the Economics 200 course listed as a part of the Transfer Module. Because of specific major requirements such as these, early identification of a student's intended major is encouraged. Advisors at the institution to which a student wishes to transfer should be consulted regarding Transfer Module and general education courses and any specific program requirements that can be completed before transfer.

Conditions for Transfer Admission.

1. The policy encourages receiving institutions to give preferential consideration for admission to students who complete the Associate of Arts or Associate of Science degree with a cumulative grade point of 2.0 or better for all previous college level courses.
2. The policy encourages receiving institutions to give preferential treatment

to students who have not earned an Associate of Arts or Associate of Science degree but have earned 60 semester hours or 90 quarter hours with a cumulative grade point of 2.0 or better for all previous college level courses.

3. The policy further encourages that students who have not earned an Associate of Arts or Associate of Science degree or who have not earned 60 semester hours or 90 semester hours with a cumulative grade point of 2.0 or better for all previous college level courses are eligible for admission as transfer students on a competitive basis.

Acceptance of Transfer Credit.

1. Students who have completed the Associate of Arts or Associate of Science degree with a cumulative grade point average of 2.0 or better will receive transfer credit for all college level courses in which a grade of D- or better has been earned.
2. Students who have not earned an Associate of Arts or Associate of Science degree will receive transfer credit for all college level courses in which a grade of C- or better has been earned.

Admission to a given institution, however, does not guarantee that a transfer student will be automatically admitted to all majors, minors, or fields of concentration at the institution. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as all other students. Furthermore, transfer students shall be accorded the same class standing and other privileges as all other students on the basis of the number of credits earned. All residency requirements must be successfully completed at the receiving institution prior to the granting of a degree.

Responsibilities of Students. In order to facilitate transfer with maximum applicability of transfer credit, prospective transfer students should plan a course of study that will meet the requirements of a degree program at the receiving institution. Specifically, students should identify early in their collegiate studies an institution and major to which they desire to transfer. Furthermore, students should determine if there are language requirements or any special course requirements that can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will articulate with the receiving institution's major. Students are encouraged to seek further informa-

tion regarding transfer from both their advisor and the college or university to which they plan to transfer.

Appeals Process. A student disagreeing with the application of transfer credit by the receiving institution shall be informed of the right to appeal the decision and of the process for filing the appeal. Each institution shall make available to students the appeal process for that specific college or university. If a transfer student's appeal is denied by the institution after all appeal levels within the institution have been exhausted, the institution shall advise the student in writing of the availability and process of appeal to the state-level Articulation and Transfer Appeals Review Committee. The Appeals Review Committee shall review and recommend to institutions the resolutions of individual cases of appeal from transfer students who have exhausted all local appeal mechanism concerning applicability of transfer credits at receiving institutions.

Transfer Module Recommendations for Transferring from Ohio University. If you are planning to transfer from Ohio University to another institution, the following guidelines should be followed in selecting courses to fulfill the 54–60 quarter hours required by the transfer module:

- 1 A minimum of five hours of English composition by completing one of the following courses:
English 151, 152, 153
- 2 A minimum of three hours of mathematics or quantitative skills from the following courses:
Computer Science 230
Math 115, 118, 121, 122, 163A-B, 211, 250, 251, 263A-B-C-D, 266A-B
- 3 A minimum of nine hours selected from at least two of the following Arts and Humanities areas:
African American Studies 110, 150, 210, 211, 250
Art 110
Art History 211, 212, 213, 214
Classics and World Religions 181
Classics in English 234
Dance 170
English 200, 206
Film 201, 202, 203
History 121, 122, 123
Humanities 107, 108, 109, 117
Interdisciplinary Arts 117, 118, 211, 212, 213, 270, 271, 272
Music History and Literature 120, 125
Philosophy 101, 130, 216, 240, 260

Theater 270, 271, 272

Women's Studies 100

- 4 A minimum of nine hours selected from at least two of the following Social and Behavioral Sciences areas:
African American Studies 101, 202
Anthropology 101, 202
Economics 103, 104
Geography 121, 131, 132, 201, 234, 241
History 101, 102, 103, 132, 133, 200, 201
Human and Consumer Sciences- Child and Family Studies 160
International Studies 103, 113, 118, 121
Linguistics 275, 280
Political Science 101, 210, 230, 250, 270
Psychology 101
Sociology 101, 201
 - 5 A minimum of nine hours of Natural and Physical Sciences, including at least one laboratory science course with at least one laboratory meeting each week in addition to lectures, from the following:
Anthropology 201
Astronomy 100, 100D, 140
Biological Sciences 100, 103, 130, 131, 170, 171, 172, 173, 201, 221, 222, 225, 275
Biology 101
Chemistry 121, 122, 123, 151, 152, 153
Geography 101, 202
Geological Sciences 101, 120, 170, 211, 215, 221, 231
Human and Consumer Sciences-Food and Nutrition 128
Physical Science 100, 100D, 101, 101L, 105, 105L, 140
Physics 201, 202, 203, 251, 252, 253
Plant Biology 100, 100L, 102
 - 6 Additional courses to fulfill the 54–60 hour requirement
- We recommend that you work closely with the transfer coordinator at the institution to which you hope to transfer to ensure that the specific courses you select will fulfill the major and graduation requirements of the academic program you intend to pursue.
- Transferring Technical College Credit.** If you have completed an associate's degree from a Board of Regents–approved Ohio college, you will be able to transfer credit for all the general education coursework in which you earned a grade of C- or better.

Most programs will also allow a limited amount of credit for technical courses to be applied as elective credit toward graduation requirements.

Enrollment Medical Requirements

There are no specific medical requirements to fulfill before entering the University—for example, you are not required to have a physical examination. However, some Colleges have specific medical requirements for students pursuing certain majors.

If you are a newly enrolled international student or an international student returning after an absence of two or more years, you will need to take a tuberculosis skin test through the Student Health Service on campus.

The University requires full-time students to have major medical insurance and offers an affordable plan for students and their dependents. Information on the insurance plan is included with your registration materials.

Application Deadlines

Although you may enroll for any quarter, we recommend that you enter fall quarter, if possible, because many course sequences begin in the fall.

Freshmen

If you are a high school senior applying for fall quarter, we recommend that you apply for admission and scholarships no later than December or January of your senior year. Applications for other terms are accepted up to one month before the quarter or term begins.

Currently, certain programs, including Honors Tutorial College, the School of Journalism, and the School of Visual Communication have earlier deadlines. Contact Undergraduate Admissions, visit the Admissions Web site, or refer to the current *Application for Admission* for specific details.

You should arrange to take the SAT and/or the ACT by December of your senior year so that scores can be submitted with your application materials. If you are applying for admission to a program with an earlier priority date, an earlier testing date is recommended.

Some of Ohio University's more competitive and popular programs meet their enrollment targets and close admission before the published deadlines. The University reserves the

right to close admission to any of its programs without advance notice.

Transfer

The application deadlines listed below are priority dates. Applications received after these dates will be reviewed on a space-available basis. If you have applied by the stated application priority date and your transcripts are received after the transcript priority date, you will still receive consideration. Be sure to have your transcripts sent directly to Undergraduate Admissions by the registrar at each school you have attended.

Transfer Application Priority Deadlines.

	<i>Applications</i>	<i>Transcripts</i>
Fall	June 15	July 15
Winter	Nov 1	Nov 15
Spring	Feb 15	March 1
Summer	May 1	May 15

International Application Priority

Deadlines. International applicants should follow the deadlines below. We recommend that you submit all of your supporting materials, including transcripts, well before the application priority date to facilitate the review process, and to allow ample time to apply for a visa at a U.S. embassy or consulate if you are admitted.

Applications and Transcripts

Fall	Feb 1
Winter	Sep 1
Spring	Dec 1
Summer	Feb 1

Campus Visits

The best way to learn about Ohio University is to visit our campus. You are encouraged to arrange a visit through Undergraduate Admissions, which sponsors information sessions and walking tours of the campus Monday through Friday and most Saturdays (except holidays—see the Academic Calendar section).

Tour and information session times are available online at <http://www.ohio.edu/admissions/visit/>. We ask that you make reservations for campus visits at least two weeks in advance for weekday visits and at least three weeks in advance for Saturday visits. Please be aware that the University observes several holidays throughout the year during which Undergraduate Admissions will be closed.

If you would like to meet with a faculty member or college representative in your field of interest, you may contact the department directly. Appropriate departmental contact information is

available online at <http://www.ohio.edu/admissions/visit/>. (These appointments are typically available Monday through Friday only.)

To arrange a visit, you may also contact Undergraduate Admissions at 740.593.4100 during office hours Monday through Friday, schedule a visit online, or take an interactive campus tour by visiting <http://www.ohio.edu/admissions/visit/>.

Visitors Center. For help in finding your way around Ohio University and Athens, stop at the Ohio University Visitors Center at the corner of Richland Avenue and Shafer Street. Directions and maps, as well as information about the University and community are available through the Visitors Center.

Schedule of Fees

Ohio Residency Guidelines

Since Ohio University assesses your tuition costs based on your status as an Ohio resident or non-Ohio resident, the following general information is provided to help you determine your residency status. The complete policy on Ohio Residency is included for your reference in the appendix.

Additional information is available from the Residency Officer in the Office of Undergraduate Admissions and is also online at <http://www.ohio.edu/admissions/residency/>

Residency reclassification is never retroactive. All appropriate documents must be submitted to the appropriate office prior to the last day to register for class for the term you wish reclassification.

In general, a student must demonstrate that s/he meets all of the criteria in one of the following sections:

C-1 Reclassification - If you are financially dependent upon a person living in Ohio

The Ohio Board of Regents Guidelines state: "A student whose spouse, or a dependent student, at least one of whose parents or a legal guardian, has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of the student in an institution of higher education."

This classification is for a person who has been claimed by either a parent or legal guardian as a dependent on that person's Internal Revenue Service tax filing for the previous year and has subjected their income to Ohio Taxation or the spouse of a person who has lived in and paid taxes to Ohio for the previous 12 consecutive months. The person the student is dependent upon must meet the definition of being a resident of Ohio for all legal purposes.

MUST PRESENT: A notarized written statement from spouse, parent or legal guardian specifying how long they have been a resident of Ohio.

Statement must include dependent student's name and social security number in the statement.

C-2 Reclassification - If you are financially independent

The Ohio Board of Regents Guidelines state: "A person who has been a resident of Ohio for all other legal purposes for at least 12 consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes."

This classification is for a person who has never been classified as a resident at Ohio University and would like to be reclassified as a resident. This is for a person who is claiming to be financially independent of anyone else unless they have a spouse who is also living in Ohio. A person must prove that they have maintained a physical presence and domicile in Ohio for the 12 months preceding the quarter they would like to be classified as a resident. The person must also prove they have transferred all items of registration to Ohio. The person must finally show that they have been financially self-sustaining on eligible Ohio income and have not received financial support from persons or entities outside of Ohio during the 12 months preceding the quarter they would like to be reclassified as a resident.

MUST PRESENT: Notarized Residency Petition, complete with supporting documents.

C-3 Reclassification - If you are financially dependent upon a spouse or parent

The Ohio Board of Regents Guidelines state: "A dependent child of a parent or legal guardian, or the spouse of a person, who as of the first day of a term of enrollment, has accepted full-time, self-sustaining employment and established domicile in the State of Ohio for reasons other than gaining the benefit of favorable tuition rates."

This classification is for a person who has been claimed for tax purposes in the previous year by a parent or legal guardian and that person has not lived in Ohio for 12 months. The spouse, parent, or legal guardian must have accepted and begun full-time employment and established a domicile in Ohio before the quarter begins in order for the student to qualify.

Note: Two part-time jobs or any combination cannot be used to constitute one full-time position. This residency reclassification

is based upon one full-time employment position.

If you are currently enrolled and your spouse has not lived in Ohio for 12 months, you cannot apply for this reclassification. The spouse must begin employment before your initial term of enrollment.

Students who marry an Ohio resident after their initial enrollment apply under C-1 if the spouse has lived in Ohio for 12 months.

Employment must be verified every quarter under C-3.

An employment letter will be required each quarter verifying the spouse or parent is still employed with the employer for which they received C-3 residency until the spouse or parent has lived in Ohio for 12 consecutive months.

Students will be classified as non-residents for the quarter after they receive C-3 residency unless a new employment letter is received by published deadlines.

MUST PRESENT: Documentation of full-time employment and domicile shall include both of the following documents:

1. A sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent or spouse of the student is employed full-time in Ohio.

Statement must include parent/spouse and student relationship, student's name and social security number in document.

2. A copy of the lease under which the parent or spouse is the lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent or spouse is the owner and occupant; or if the parent or spouse is not the lessee or owner of the residence in which he or she has established domicile, a letter from the owner of the residence certifying that the parent or spouse resides at that residence.

E-1 Reclassification - If you are an employed part-time student

The Ohio Board of Regents Guidelines state: "A person who is living and gainfully employed on a full-time or part-time self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes."

This residency exception is for a person who is residing in and is gainfully employed on a self-sustaining basis in

Ohio and who is pursuing a part-time program of instruction. E-1 residency generally pertains to the individual who has resided in Ohio less than 12 consecutive months and has moved to Ohio for employment purposes. However, it may also include non-resident students who have lived in Ohio more than 12 months and are working to financially emancipate themselves from non-Ohio parents.

The employment must begin and be self-sustaining before the first day of the quarter a person seeks to qualify for E-1 residency. Other sources of income such as loans cannot be considered as income contributing to a student's self-sustaining status.

Students who have received E-1 classification do not automatically convert to regular resident status after living in Ohio for 12 months. They must then apply under C-2.

Note: Students must apply every quarter for E-1 classification.

MUST PRESENT: Notarized Residency Petition form, complete with supporting documents and notarized. Must meet all requirements with the exception of living in Ohio for the previous 12 consecutive months.

E-2 Reclassification – If you or your parent or spouse are active duty military
The Ohio Board of Regents Guidelines state: "A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile."

This residency exception is for a person who entered active duty military status as a resident of Ohio and is returning to Ohio after being discharged. This residency exception is also for a person who entered active duty military status as a resident of Ohio and their spouse or dependent child would like to return to Ohio and attend Ohio University while they are still on active duty military and not living in Ohio.

MUST PRESENT:

Dependent student: Copy of parent's current official military records showing Ohio as "Home of Record" (HOR) or copy of most recent "Leave and Earning Statement" (LES) showing income has been subjected to Ohio taxation. Must be accompanied by letter from parent listing student's name and social security number.

Independent student: Copy of current official military records showing Ohio

as "Home of Record" (HOR) or copy of most recent "Leave and Earning Statement" (LES) showing income has been subjected to Ohio taxation.

E-3 Reclassification – If you or your parent or spouse are active duty military and stationed in Ohio

The Ohio Board of Regents Guidelines state: "A person on active duty status in the United States military who is both stationed and residing in Ohio (and their dependents) shall be considered a resident of Ohio for tuition purposes."

This residency exception is for a person, or their spouse, or their dependent child, who is stationed in Ohio on active duty military.

MUST PRESENT:

Dependent student: Copy of parent's official military orders showing current active duty status in Ohio. Must be accompanied by letter from parent listing student's name and social security number.

Independent student: Copy of official military orders showing current active duty status in Ohio.

E-4 Reclassification – If your parents or spouse are Ohio residents and transferred outside of the United States
The Ohio Board of Regents Guidelines state: "A person who is transferred by their employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and their dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile and as long as such person has fulfilled their tax liability to the State of Ohio for at least the tax year preceding enrollment."

This residency exception is for a person, or their spouse, or their dependent child, who would like to return to Ohio and attend Ohio University when they have not lived in Ohio for the previous 12 consecutive months.

MUST PRESENT:

Independent student: Statement on employer's letterhead indicating the employee was an Ohio resident at the time of being transferred. Copy of the employees' Ohio tax return for the previous tax year.

Dependent student: The documents listed above for an Independent student must also be accompanied by letter from parent listing student's name and social security number and dependent status.

E-5 Reclassification – If you or your parents are migrant workers

The Ohio Board of Regents Guidelines state: "A person who has been employed as a migrant worker in the State of Ohio and their dependents shall be considered a resident for these purposes provided such a person has worked in Ohio at least four months during the three years preceding the proposed enrollment."

This residency exception is for a person, or their spouse, or their dependent child who would like to attend Ohio University and they have not lived in Ohio for the previous 12 consecutive months.

MUST PRESENT:

Dependent student: Statement(s) from employer(s) verifying the parent has worked in Ohio at least four months during each of the three previous years. Must be accompanied by letter from parent listing student's name and social security number.

Independent student: Statement(s) from employer(s) verifying the student has worked in Ohio at least four months during each of the three previous years.

E-6 Reclassification – If you or your parents or spouse are involved in community service

The Ohio Board of Regents Guidelines state: "A person who was considered a resident under this rule at the time the person started a community service position as defined under this rule, and his or her spouse and dependents, shall be considered residents of Ohio while in service and upon completion of service in the community service position."

This residency exception is for a person, or their spouse, or their dependent child who was a resident of Ohio and took a position working for: (A) VISTA, AmeriCorps, City Year, the Peace Corps, or any similar program as determined by the Ohio Board of Regents; or (B) an elected or appointed public official for a period of time not exceeding 24 consecutive months. The person now wishes to return to Ohio and be classified as a resident for tuition purposes.

MUST PRESENT:

Independent student: A sworn statement from the community service group or a signed statement on letterhead verifying Ohio home of record for the individual.

Dependent student: In addition to the above, a signed letter from the parent verifying the dependent status of the student or a copy of a marriage certificate.

E-7 Reclassification – If you return to Ohio due to marital hardship
The Ohio Board of Regents Guidelines

state: "A person who returns to the state of Ohio due to marital hardship, takes or has taken legal steps to end a marriage, and reestablishes financial dependence upon a parent or legal guardian (receives greater than 50% of his or her support from the parent or legal guardian), and his or her dependents shall be considered residents of Ohio."

This residency exception is for a person or their dependent child who returns to Ohio and has legally separated from their spouse and is now provided with more than 50% of their support from a parent who is a bona fide Ohio resident.

MUST PRESENT:

1. Copy of court papers verifying the couple has taken legal steps to end the marriage.
2. Proof of Ohio domicile: (one of the following)
 - a. Signed copy of rental agreement or lease
 - b. Copy of closing statement on the house you live in
 - c. If living with someone, a sworn statement from the owner of the residence certifying that you reside at that residence and the date you began living there
3. A sworn affidavit from the parents stating all of the following:
 - a. The student's name and social security number
 - b. Whether or not they are providing more than 50% of the financial support for the student
 - c. Length of time they have lived in Ohio and subjected their income to Ohio taxation
 - d. Whether they are United States citizens, permanent resident aliens, or what their status is in the United States.

E-8 Reclassification – If you or your parent or spouse serve in the Ohio National Guard

The Ohio Board of Regents Guidelines state: "A person who is a member of the Ohio National Guard and who is domiciled in Ohio, and his or her spouse or dependents, shall be considered residents of Ohio while the person is in the Ohio National Guard."

This residency exception is for a person, or their spouse, or their dependent child, who is living in Ohio and is in the Ohio National Guard.

MUST PRESENT:

Independent student: A copy of enlistment papers or a letter from the base personnel officer verifying service in the Ohio National Guard.

Dependent Student: In addition to the above, a signed letter from the parent verifying the dependent status of the student or a copy of a marriage certificate.

Current Tuition and Fee Rates

Current tuition and fee rates can be found at <http://www.finance.ohiou.edu/bursar/>

Registration Fees

Bills are sent electronically approximately four weeks before the quarter opening date. Payment is due two weeks prior to the quarter opening date. Refer to the Office of the Bursar Web page (<http://www.finance.ohiou.edu/bursar/>) for all payment options. Electronic check (eCheck) payments can be made by accessing the student eAccount on the Office of the Bursar Web page. Fees can be paid by a check or money order made out to Ohio University. You can pay through the mail or in person at the cashier's office in Chubb Hall if you are enrolling on the Athens campus, or at the regional campus Office of Student Services if you are enrolling on one of the regional campuses.

Credit card payments are accepted at regional campuses for regional campus students only. Credit card payments can also be made using CASHnet SMARTPAY (<http://www.cashnetsmartpay.com/ohio/>). This is a service that allows you to pay your University charges on the Internet with a credit card. A service charge based on the transaction amount will be assessed.

You must pay your fees by the stated deadlines or risk a \$100 late payment charge. Post-dated checks are not accepted, and checks issued to the University and not paid upon presentation to the bank will automatically cancel any receipts given and result in the assessment of penalties.

Fees for tuition include the instructional fee and the general fee. This figure excludes fees for special courses, such as art, aviation, education, human and consumer sciences, journalism, music, recreation and sport sciences, and visual communication, which are available in the online quarterly *Schedule of Classes*. Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary.

Full-time students with majors in the Russ College of Engineering and

Technology, the College of Business, the College of Communication, and the College of Arts and Sciences will be assessed a fee for computing and other types of technology (regardless of class schedule). The fee for the Russ College of Engineering and Technology is \$6 per credit hour or \$65 per quarter for a full-time student. The fee for the College of Business is \$6 per credit hour or \$65 per quarter for a full-time student. The fee for the College of Communication is \$4 per credit hour or \$40 per quarter for a full-time student. The fee for the College of Arts and Sciences is \$1 per credit hour or \$15 per quarter for a full-time student.

You are responsible for any University communication sent to you at your official University e-mail address (Oak account) and/or to the mailing address on file with the Office of the University Registrar.

Late Registration Fees

Unless your registration has been delayed by the University, you will be charged a fee for late registration beginning with the third calendar week of each quarter. The fee is \$40 the third week, \$60 the fourth week, \$80 the fifth week, and \$100 the sixth week.

Monthly Payment Plan

Ohio University provides a monthly payment plan for students. The plan consists of three (3) monthly payments per quarter for fall, winter, and spring quarters and two (2) payments for summer quarter. This plan is not a loan program, and there is no interest charge on payments. Enrollment begins in June for the coming year, and you are charged a \$50 nonrefundable application fee. A \$25 late fee will be assessed for payments received after the due dates.

Contact the Office of the Bursar, Chubb Hall 010, telephone 740.593.4130, with any questions. Apply for the Monthly Payment Plan online at <http://www.finance.ohiou.edu/bursar/>.

Refund of Fees

University Refund Policy for Withdrawal. Ohio University refunds fees or credits your account 30 days after the date of withdrawal, according to the following schedule:

- 1 If you officially withdraw from the University (cancellation of registration) before the first day of classes,

you are entitled to a 100 percent refund of registration fees if your fees were paid in full.

- 2 If you officially withdraw from the University during the first 15 calendar days of the quarter (see the academic calendar <http://www.ohio.edu/registrar/calendar.cfm>), you are entitled to an 80 percent refund if your registration fees were paid in full.

- 3 If you withdraw from the University after the first 15 calendar days of the quarter, you are not entitled to a refund of registration fees.

If you withdraw from the University before full payment of fees is made, you are considered indebted to the University for the amount determined

according to the refund regulations. A hold will be placed on your records until your debt is paid.

Refund Policy for Reducing Course Load. If you drop credit hours before or during the first 15 calendar days of the quarter, you are entitled to receive a 100 percent refund of the reduction when such changes result in a reduction of fees. For example, if you are registered for 11 hours and drop a 5-hour course, you will receive 100 percent of the difference in tuition for dropping from full-time to part-time. However, if you have 15 hours and drop to 11 hours, it does not affect the tuition, because the standard tuition rate applies to a course load of 11 through 20 hours. Course load reductions made after the

15th calendar day of the quarter will result in no refund. Corrected registration that results in increased hours could increase tuition. Further information regarding the refund of fees can be obtained from the bursar's office.

Other Related Fees (2005–2006)*

- \$10 Reclassification fee from special student to regular student status (Athens campus only)
- 5 Change of class schedule after 15th calendar day
- 5 Duplicate official forms, fee receipts, etc.
- 40 Late registration fee (plus \$20 per week after third week, up to a maximum of \$100)
- 100 Late payment charge
- 25 Monthly payment plan late payment charge
- Application for degree*
- 50 Associate's
- 50 Bachelor's
- 50 Master's
- 50 Doctorate
- 5 Reapplication for degree
- 810 Health insurance, annual premium (2005–06)
- 1,209 International health insurance, annual premium (2005–06)
- 50 Monthly payment plan (nonrefundable)
- 70 Orientation and testing fee

Parking per quarter

- 35 Commuter lot
- 110 Garage
- 55 On-campus lot

For current parking fine rates, please refer to the Parking Services Web site at: <http://www.facilities.ohiou.edu/parking/> or call Parking Services at 593.1917.

- 25 Returned check/eCheck charge
- 5 Transcripts–Next Day Service
- 10 Transcripts Now–Same Day Service
- 10 ID card replacement
- 10 Phone reactivation fee
- 15 Diploma replacement

Admission Related Fees

Please refer to the appropriate application for admission for current application fees. All application fees are nonrefundable.

Room and Board Fees

Room and board rates and options for the current year are available via the Ohio University Housing Web site at <http://www.ohio.edu/housing/>

*2006–07 fees were not available at time of printing.

Withdrawal Policy for Financial Aid Recipients

Title IV Funds. You are a Title IV financial aid recipient if you receive Direct Loans (Subsidized, Unsubsidized, or PLUS), Perkins Loan, Federal Pell Grant, Federal SEOG, or Federal Stafford Loans (for College of Osteopathic Medicine Students). If you receive Title IV financial aid and withdraw from Ohio University, the amount of aid earned and unearned will be calculated using the Federal Return of Title IV Funds policy. This policy is a formula that measures the percentage of days enrolled during a quarter. The percentage is determined by dividing the number of days enrolled by the number of calendar days in the quarter, including weekends and holidays. Based on this percentage, Title IV financial aid will be prorated to reflect the amount of aid that was earned during the period of enrollment. The amount of aid that is earned will remain on your student account and the amount of aid that is unearned will be returned to the appropriate program. Once the attendance percentage reaches 60 percent, all Title IV financial aid is considered to be earned.

If it is determined that Title IV funds need to be returned, by Federal Law they will be returned in the following

order: Unsubsidized Federal Stafford Loans, Subsidized Federal Stafford Loans, Unsubsidized Direct Loans, Subsidized Direct Loans, Perkins Loans, Federal PLUS Loans, Federal Pell Grant, Federal SEOG, and Other Title IV assistance.

State and Institutional Grants. If you receive financial aid that consists of state or University grant funds, they are subject to the University Refund Policy. If you officially withdraw during the first 15 calendar days of the quarter, 80% of the grant funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the grant funds will remain on your student account.

Undergraduate and Graduate Scholarships. If you receive financial aid that consists of undergraduate or graduate scholarships, they are subject to a Special University Policy. If you officially withdraw during the first 15 calendar days of the quarter, 100% of the scholarship funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the scholarship funds will remain on your student account.

Unofficial Withdrawals. If you stop attending the University and do not officially withdraw, it is considered to be an unofficial withdrawal and will be subject to the above Withdrawal

Policies. The date of withdrawal will be the latest date based on a student's attendance at an academically-related event. If the last date of attendance is not known, the midpoint of the quarter will be used as the withdrawal date. If you never attend all of the courses you have registered for, you are considered to be an unofficial withdrawal. It is determined that you have not earned any financial aid. Therefore, all aid will be returned to the appropriate program.

A student is not eligible for a refund until all Federal Title IV programs and other grants and scholarships are reimbursed as required and all outstanding balances with the University have been cleared.

If you are receiving financial aid, a change in your enrollment status or your withdrawal from the University may result in your having to repay programs from which you received financial assistance. In addition, you may owe fees to the University after funds are returned to the financial aid programs.

Further information on this process is included under "Withdrawal Policy for Financial Aid Recipients" in the Financial Aid Information section of this catalog.

Financial Aid

The purpose of financial aid and scholarships is to supplement your and your family's contributions toward the cost of education, as well as to recognize academic achievement and special talents. Ohio University offers a variety of scholarship, grant, loan, and part-time employment programs to assist you in financing your education. The Office of Student Financial Aid and Scholarships (OSFAS) is responsible for the processing and awarding of all types of federal, state, private, and institutional (University) funds to students.

Office of Student Financial Aid and Scholarships

Ohio University

020 Chubb Hall

Athens OH 45701-2979

Telephone 740.593.4141 (M–F 8 a.m.–5 p.m.)

Fax 740.593.4140

E-mail financial.aid@ohio.edu

Web <http://www.ohio.edu/financialaid/>

All information in this section is subject to change due to congressional action or changes in federal regulations.

Types of Financial Assistance

All types of financial assistance fall within two major categories—gift aid and self-help aid. These aid programs may be awarded on the basis of merit, financial need, or a combination of both. Scholarships are considered merit awards; other types of aid are based on an analysis of your and your family's ability to contribute to the cost of education. Scholarships and grants do not have to be repaid; loans, however, must be repaid by the borrower.

Gift Aid

Scholarships. Ohio University has an extensive undergraduate scholarship program available to freshmen, and upperclassmen (sophomore, junior, and senior). Scholarships are awarded on a competitive basis for academic achievement and special talent, as well as on the basis of geographical residence and area of study. Financial need is not always a prerequisite.

Grants. Most grant aid is awarded on some type of need-based eligibility criteria. The sources may vary from state, federal, private, and institutional funds, so you are encouraged to actively seek out all sources.

Self-Help Aid

Loans. Student loans play a significant role in financing post-secondary education. Ohio University participates in the William D. Ford Federal Direct Student Loan Program, which allows students to borrow directly from the federal government through Ohio University. These educational loans have favorable terms and conditions. You should view borrowing as an investment in your future. However, loans represent debts that

must be repaid, and failure to repay will result in severe penalties.

Employment. Ohio University has a variety of student employment (on- and off-campus) programs available to provide self-help aid if you wish to work on a part-time basis while pursuing your education. You should attempt to establish a reasonable balance between your academic efforts and your work schedule. Consequently, you may not work more than 20 hours a week when classes are in session. Ohio University is an equal opportunity and affirmative action employer. The Student Employment Office (SEO), part of the OSFAS, reaffirms the University's commitment to the policy that no employer may discriminate on the basis of race, sex, creed, ethnic origin, or handicap in employment practices. There will be no discrimination because of age, except as governed by state and federal laws and guidelines. (See "Affirmative Action" in the Services for Students section of this catalog.)

Application Procedure

There are five types of federal need-based financial aid: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Perkins Loan, and William D. Ford Federal Direct Student Loan. Other types of financial aid, such as the Ohio University Access Grant, Ohio University Bobcat Award, and Ohio College Opportunity Grant, are also available. To apply for all sources of financial aid, complete the U.S. Department of Education's Free Application for Federal Student Aid (FAFSA) on the Web at <http://www.fafsa.ed.gov/> after January 1. You and your parent should each get

a Personal Identification Number (PIN) from the Department of Education to electronically sign your FAFSA on the Web. You and your parent should visit <http://pin.ed.gov/> to get your PIN before filing the FAFSA. You can also obtain a paper FAFSA from any high school, college, or university after January 1. However, we recommend filing FAFSA on the Web to reduce errors and speed processing time. We recommend that you complete your FAFSA on the Web by February 15 in order for your FAFSA results to be received by the University before the March 15 priority deadline.

After you complete the FAFSA, you will receive a Student Aid Report (SAR) from the U.S. Department of Education's Central Processor. You may receive an e-mail allowing you to view your SAR online if you provide an accurate e-mail address when using FAFSA on the Web. If you must make corrections to the information on your FAFSA, provide documentation of those changes to the OSFAS. Appropriate corrections will be made and a new SAR will be available.

Three of the five need-based aid programs (Federal Work Study, Federal Perkins Loan, and the Federal Supplemental Educational Opportunity Grant [FSEOG]) are called campus-based aid (CBA). Campus-based aid is awarded differently from the Federal Pell Grant and the Federal Direct Student Loan in that CBA funds are sent directly to the University from the federal government. The funds are then awarded by the aid administrator using federal eligibility criteria. Funding for these programs and for institutional grants is limited; therefore, priority is given to those students who demonstrate the highest financial need and who meet Ohio University's priority deadline of March 15.

The priority deadline is March 15. Even if you do not meet this deadline or the eligibility criteria, we recommend that you complete the FAFSA for other types of assistance that do not have a priority deadline, such as the Federal Pell Grant or the Federal Direct Student Loan.

Federal regulations and institutional policies are subject to change without prior notice. The OSFAS will attempt to keep you updated through various media on campus, the OSFAS Web site, student e-mail, and/or written notices. To avoid costly delays, it is vital to update your permanent and local addresses with the Registrar's Office or through the OSFAS and to regularly access your OAK e-mail account.

Need-Based Financial Aid

Ohio Instructional Grant (OIG). If you are an independent student and an Ohio

resident, or, if you are a dependent student and both you and your parents are Ohio residents, you are encouraged to apply for the OIG by completing the FAFSA. October 1 is the deadline for applying for the OIG, although you should apply as early as possible—ideally by February 15. If you are eligible, you will receive a notice of eligibility directly from the Ohio Board of Regents. You must meet all Ohio University eligibility criteria before funds are disbursed to your account.

Ohio College Opportunity Grant (OCOG). OCOG replaces OIG for students enrolling for the first time beginning with the 2006 summer quarter. If you are an independent student and an Ohio resident, or, if you are a dependent student and both you and your parents are Ohio residents, you are encouraged to apply for the OCOG by completing the FAFSA. October 1 is the deadline for applying for the OCOG, although you should apply as early as possible—ideally by February 15. You must meet all Ohio University eligibility criteria before funds are disbursed to your account.

Federal Pell Grant. Students meeting the FAFSA and institutional eligibility criteria will be considered for a Pell Grant. Awards are determined by information provided on the FAFSA. Award amounts vary.

William D. Ford Federal Direct Student Loan. You will be notified about your eligibility for student loans on an award letter. You must complete the Electronic Master Promissory Note (EMPN) and Entrance Counseling (if you are a first-time borrower) or complete online Web confirmation to accept your loan (if you have an MPN on file from previous years) before the loan process can be completed. Once the process is completed, loan proceeds will be credited to your account at the opening of each term. You must also complete Exit Counseling prior to completion of your program or after you have dropped below half time enrollment.

Merit-Based Financial Aid Freshman Scholarships. There is no application for freshman scholarships at Ohio University. Simply complete the Application for Admission and Scholarships available from the Office of Undergraduate Admissions or apply online at <http://www.ohio.edu/>. To be considered a priority applicant, you must be accepted for admission by February 1. Eligible applicants are considered for all scholarships.

To assure consideration for all possible institutional scholarship awards, you must also complete the Free Application

for Federal Student Aid (FAFSA) and have the results on file by March 15. If you plan to enter the College Of Fine Arts, you also will be evaluated by interview and portfolio or audition.

If you receive a scholarship, you are required to enroll for and earn a minimum number of 16 credit hours a quarter during your freshman year. Please review your award letter for the hours requirement for your specific scholarship award.

Upperclass and Transfer Student Scholarships (Undergraduate). You can apply for Deans Scholarships and other upperclass scholarships by completing Ohio University's online scholarship application. The eligibility requirements for most upperclass scholarships include: an accumulative g.p.a. of 3.4 or above by the end of winter quarter of the application year; at least 32 credit hours earned during the fall and winter quarters of the application year; and at least 48 credit hours earned by the end of spring quarter. You also must have completed at least two quarters at Ohio University.

To apply for an upperclass scholarship, complete the electronic scholarship application through the OSFAS Web site. Complete instructions are available at OSFAS. The application period opens the first week of winter quarter, and the application deadline is the last day of winter quarter final exams.

All transfer students admitted by May 15 will automatically be considered for scholarships awarded by the Office of Admissions based on the transcripts submitted for review. No separate application is required.

If you receive a scholarship, you are required to enroll for and earn a minimum of 16 hours per quarter.

Regional Campus Scholarships. Upperclass students must complete their applications online using the online scholarship application on the OSFAS Web site. The criteria are somewhat different from those on the Athens campus, and you should check with the individual regional campus for application deadlines.

Cost of Attendance

Each year, the Ohio University Board of Trustees determines the fixed costs (tuition and fees, out-of-state surcharge, and room and board rates on campus). Variable indirect costs (books and supplies, travel, and personal and miscellaneous) are estimated by the OSFAS to arrive at a reasonable estimate of the total cost for the academic year. Estimates

are based on the Consumer Price Index and biannual surveys. The total fixed and variable costs make up your total Cost of Attendance Budget for the academic year. Final annual budgets are available from the OSFAS after July 1 of each award year.

Determining Need

Completion of the FAFSA will determine your Expected Family Contribution (EFC). This EFC does not indicate the actual amount your family is expected to contribute toward your post-secondary expenses. Rather it is a figure used to determine your aid eligibility. The EFC is the result of all information provided on your FAFSA and is determined by the formula derived by the U.S. Department of Education.

Special circumstances such as divorce, separation, unemployment, or death in the family should be discussed with a financial aid administrator to determine if adjustments should be made to your FAFSA information.

The following formula is used for calculating financial need:

$$\begin{array}{r} \text{Cost of Education (Budget)} \\ - \text{Minus Expected Family Contribution} \\ \hline = \text{Calculated Financial Need} \end{array}$$

Eligibility Requirements

To receive Title IV federal aid (Federal Pell Grant, Federal Direct Student Loan, Federal Work Study, Federal SEOG, or Federal Perkins Loan), you must:

- 1 Be a U.S. citizen, a national or permanent resident of the U.S., or other eligible non-citizen status.
- 2 Comply with U.S. Selective Service registration requirements.
- 3 Be enrolled or accepted for enrollment in a degree-seeking program. Certificate programs or preparatory coursework cases should be discussed with a financial aid administrator.
- 4 Be making satisfactory academic progress as defined by Ohio University and the OSFAS. (See Satisfactory Academic Progress Standards.)
- 5 Not be in default on a Federal Perkins Loan, a Federal Family Educational Loan (FFEL), Federal Direct Student Loan, or Federal Supplemental Loan for Undergraduate Students (SLS), from any school, agency, or lender, or owe a repayment on any Title IV funds. (Parents also must not be in default if applying for a PLUS loan.)

Some types of financial aid, such as most grants, are not available if you have already earned a bachelor's degree.

Independent and Distance Learning Courses

Students pursuing coursework through the Ohio University Office of Independent and Distance Learning Programs may be considered for the Federal Pell Grant and Federal Direct Student Loan once the results of the Free Application for Federal Student Aid (FAFSA) have been received by the OSFAS. Financial aid awards are calculated differently for distance learning courses than they are for traditional coursework. The amount of any Pell Grant award is determined by the student's cost of attendance, which includes tuition and fees as well as a book allowance, the number of credit hours the student is taking, and the Expected Family Contribution (EFC) as calculated by the U.S. Department of Education. Federal Direct Student Loan eligibility is determined by the cost of attendance not covered by the Pell Grant, the number of credit hours the student is taking, and the EFC. The Pell Grant is paid in two disbursements. The first disbursement (half of the annual award) is made once the OSFAS has received notification from the Degree Services Office of Independent and Distance Learning Programs that 25 percent of the student's coursework has been completed. The final disbursement is made once the OSFAS has received notification that 75 percent of the student's coursework has been completed. The Federal Direct Student Loan is also paid in two disbursements. The first disbursement (half of the annual award) is made once the student has registered for courses. The final disbursement is made six months after coursework has begun, provided that the OSFAS has received notification that 50 percent of coursework has been completed. The cycle for correspondence coursework runs from July to June; Pell Grants for the award year must be disbursed by September 1. The deadline for disbursement of Stafford Loans is based upon your enrollment date. Please contact the OSFAS for further information.

Students pursuing correspondence studies must also meet Satisfactory Academic Progress (SAP) standards to remain eligible for financial aid. SAP standards are calculated differently for correspondence studies than they are for traditional coursework. For details of correspondence SAP policies, please contact the OSFAS.

Award Package

After the FAFSA needs analysis electronic results and other requested docu-

ments have been received, reviewed for accuracy, and verified (if applicable), an award package is offered to all eligible applicants. The award package can be a combination of merit scholarships; institutional, state, and federal grants; employment; and loan assistance. Not all students receive all types of financial aid, but in general the OSFAS attempts to balance gift aid (grants and scholarships) with self-help aid (employment and loans) within the limits of available funds and the eligibility and need of the applicants. If you meet the March 15 priority deadline, you may receive a more attractive package than if you apply later.

Award Letters

Notification of specific award offers will be sent to eligible applicants because all eligible applicants qualify for some form of aid. Award notifications will be e-mailed to enrolled students and award information is available online. Certain students will have letters mailed to permanent or local addresses. If you are adjusting or declining any of the awards, you may do so through your online award letter, or you may return the award letter indicating the changes to the OSFAS. All awards are subject to revision due to changes in federal allocations, student eligibility (EFC), clerical errors, failure to provide requested documents, or other circumstances beyond our control.

Award Disbursements

Federal aid recipients must be officially enrolled in a degree-seeking program to receive any type of financial assistance. All requested documents (e.g., income tax returns and W-2's) used in verifying the data provided on the FAFSA must be received by the OSFAS before financial aid can be disbursed. Disbursement dates and procedures will vary depending on the type of awards offered. Specific dates and information regarding the disbursement of financial aid are listed in each quarter's *Schedule of Classes*. In general, financial aid awards will be credited to your account each quarter, and total financial aid credits greater than your University charges will be mailed to your local address. For direct deposits, refunds (overages) from your student account are processed on a daily basis, beginning on the first day of classes. For paper checks, refunds (overages) from your student account are mailed on Fridays once classes have begun.

All Federal Direct Loan borrowers must complete exit counseling upon completion of 150 undergraduate hours

toward a bachelor's degree or 45 hours toward an associate's degree. Aid may be delayed until the OSFAS has evidence that you have completed exit counseling.

Federal Work Study awards are not credited to your account because these awards must be earned before being paid. You will be paid by check or direct deposit every two weeks.

Please note the payment due dates in the billing statement from the Bursar's Office. (See the *Schedule of Classes* each quarter for specific disbursement dates.) If you will be away from campus in a student teaching program, co-op, or study abroad, contact the OSFAS well in advance to discuss your eligibility and arrange for disbursement of your financial aid.

Withdrawal Policy for Financial Aid Recipients

Title IV Funds

You are a Title IV financial aid recipient if you receive Direct Loans (Subsidized, Unsubsidized, or PLUS), Perkins Loan, Federal Pell Grant, Federal SEOG, or Federal Stafford Loans (for College of Osteopathic Medicine Students). If you receive Title IV financial aid and withdraw from Ohio University, the amount of aid earned and unearned will be calculated using the Federal Return of Title IV Funds policy. This policy is a formula that measures the percentage of days enrolled during a quarter. The percentage is determined by dividing the number of days enrolled by the number of calendar days in the quarter, including weekends and holidays. Based on this percentage, Title IV financial aid will be prorated to reflect the amount of aid that was earned during the period of enrollment. The amount of aid that is earned will remain on your student account and the amount of aid that is unearned will be returned to the appropriate program.

If it is determined that Title IV funds need to be returned, by Federal Law they will be returned in the following order: Unsubsidized Federal Stafford Loans, Subsidized Federal Stafford Loans, Unsubsidized Direct Loans, Subsidized Direct Loans, Federal Perkins Loans, Federal PLUS Loans, Federal Pell Grant, Federal SEOG, Other Title IV assistance.

State and Institutional Grants

If you receive financial aid that consists of state or University grant funds, they are subject to the University Refund Policy. If you officially withdraw during the first 15 calendar days of the quarter, 80% of the grant funds will be returned to the appropriate program. After the

first 15 calendar days of the quarter, 100% of the grant funds will remain on your student account.

Undergraduate and Graduate Scholarships

If you receive financial aid that consists of undergraduate or graduate scholarships, they are subject to a Special University Policy. If you officially withdraw during the first 15 calendar days of the quarter, 100% of the scholarship funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the scholarship funds will remain on your student account.

College of Osteopathic Medicine Loans and Scholarships

If you receive financial aid that consists of College of Osteopathic Medicine Scholarships, Scholarships for Disadvantaged Students, Exceptional Financial Need (EFN) or Financial Aid for Disadvantaged Health Profession Students (FADHPS), Loans for Disadvantaged Students, Primary Care Loans or other non Title IV aid, you are subject to a Special University Policy. If you officially withdraw during the first 15 calendar days of the quarter, 100% of the financial aid funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the financial aid funds will remain on your student account.

Unofficial Withdrawals

If you stop attending the University and do not officially withdraw, it is considered to be an unofficial withdrawal and will be subject to the above Withdrawal Policies. The date of withdrawal will be the latest date based on a student's attendance at an academically-related event. If the last date of attendance is not known, the midpoint of the quarter will be used as the withdrawal date. If you never attend all of the courses you have registered for, you are considered to be an unofficial withdrawal. It is determined that you have not earned any financial aid. Therefore, all aid will be returned to the appropriate program.

If you are receiving financial aid, a change in your enrollment status or your withdrawal from the University may result in your having to repay programs from which you received financial assistance. In addition, you may owe fees to the University after funds are returned to the financial aid programs.

A student is not eligible for a refund until all Federal Title IV programs and other grants and scholarships are reimbursed as required and all outstanding balances with the University have been cleared.

Satisfactory Academic Progress (SAP) Standards

Federal regulations require that all financial aid applicants meet Ohio University's satisfactory academic progress standards: (1) minimum credit hours earned for the appropriate enrollment status (full time, three-quarter time, half time, or less than half time); (2) maximum time frame during which a degree or certificate must be granted; and (3) minimum 2.0 accumulative g.p.a.

Minimum credit hour standards require you to earn a minimum number of hours based on your enrollment status. As an undergraduate student, you are required to earn 12 hours if you are enrolled full time; 9 hours if you are enrolled three-quarter time; 6 hours if you are enrolled half time; and all hours attempted if you are enrolled less than half time. Maximum time-frame (MTF) standards are determined by your enrollment status. Full time enrollment (12 hours or more) is equal to 1 MTF quarter. Three-quarter time enrollment (9 to 11 hours) is equal to .75 MTF quarter. Half time enrollment (6 to 8 hours) is equal to .5 MTF quarter. Less than half time enrollment is prorated accordingly. While seeking a Bachelor's Degree, you are eligible to receive any aid for which you qualify through your first 18 MTF quarters of attendance. Once your MTF total reaches 18, you are no longer eligible to receive Title IV and selected other types of financial assistance regardless of periods during which you received no financial aid. If you are seeking an Associate's Degree, you are eligible to receive any aid for which you qualify through your first 9 MTF quarters of attendance. Once your MTF total reaches 9, you are no longer eligible to receive Title IV and selected other types of financial assistance, regardless of periods during which you received no financial aid.

If you are a first-time federal aid applicant, you must earn a minimum 2.0 accumulative g.p.a. by the end of your second academic year of enrollment. If you are a continuing aid applicant, you must maintain a minimum 2.0 g.p.a. If you are a transfer student, hours accepted by Ohio University will be included as part of the maximum time frame toward the completion of a degree or certificate and as part of the minimum credit hour component of SAP. If you are re-enrolling, your prior Ohio University hours are considered in determining satisfactory academic progress. If you attend summer sessions, you will have the time frame, hours attempted, and g.p.a. counted for that quarter. In the event of repeated courses, only the

final hours count toward the completion of a degree or certificate, but courses count toward both the minimum credit hour component and the maximum time frame component of SAP each time they are taken. Proper withdrawal from classes prior to the 14th day of enrollment will not affect the fulfillment of the requirements, but attempted hours after the 14th day of enrollment will be counted.

You will be notified annually if your SAP status is other than satisfactory after spring quarter grades are recorded. If you are placed on warning status, you are considered on probation for financial aid purposes for the following academic year. During this probationary period you remain eligible to receive any financial aid for which you qualify. Your SAP status is reviewed again in the next annual review, which takes place after spring quarter. Students in warning status will not have their aid packaged for the following year until they are found to be in "satisfactory" SAP status during the annual review in June. If you still do not meet SAP standards when you are reviewed again, you are placed on unsatisfactory status and are not eligible to receive federal financial aid for that academic year. You may appeal the decision if your failure to meet SAP criteria was due to mitigating circumstances. Appeal forms are available on the OSFAS webpage and must be submitted no later than the 21st day of the quarter in which reinstatement of aid is sought. Please contact the OSFAS for specific dates.

If you are placed on warning status and decide to attend summer sessions, you should be prepared to do so at your own expense. Summer classes will have been in session for one to two weeks before the SAP annual review; therefore, your SAP status may become unsatisfactory for the summer term and you would be ineligible for financial aid for that session.

Eligibility and Renewal Criteria for Scholarships

If you receive scholarship aid, you must meet the following requirements before you can be considered for renewal (if your scholarship is renewable) or be considered an eligible applicant for non-renewable scholarships:

Hours Requirement. If you receive scholarship aid while attending the Athens campus, you must earn a minimum number of credit hours for each quarter during the academic year for which you receive funds. Students with disabilities or those experiencing extenuating circumstances who are therefore unable to carry the required course load should

contact the associate director for scholarships to submit an appeal. If you attend a regional campus and receive a regional campus scholarship, you must earn at least 12 credit hours for each quarter during the academic year for which you receive the award.

G.P.A. and Hour Requirements for Renewable Scholarships. To renew the Gateway Excellence Scholarship you must carry at least 16 hours per quarter and earn at least 48 credit hours with an accumulative g.p.a. of at least 3.3 annually. To renew the Gateway Scholarship you must carry at least 12 credit hours per quarter and earn an accumulative g.p.a. of at least 3.0 annually. To renew the Gateway Trustee Award for nonresident students you must carry at least 12 credit hours per quarter and earn an accumulative g.p.a. of at least 3.0 annually.

National Merit Scholarships and outside agency scholarships have different g.p.a. requirements, set by the National Merit Corporation and outside agencies respectively. Academic requirements for regional campus scholarships vary. Contact the Office of Student Services at your campus for further information.

Descriptions of Available Aid

Gift Aid—Scholarships

Below is a listing of some of the scholarships offered at Ohio University. A complete listing of all scholarships is available on the OSFAS Web site.

Gateway Award Program. The Gateway Award Program is a combination of scholarship and grant opportunities for incoming freshmen students. The program is comprised of the Gateway Excellence Scholarship, and the Gateway Scholarship, which is based on academic merit as demonstrated by ACT or SAT results; and the Gateway Grant, which is based on both academic merit and financial need as demonstrated by FAFSA results. This program will affect many students who enter Ohio University with a composite ACT of at least 25, or a combined SAT score of at least 1130. Recipients of these awards are also considered for a one-time Residence Hall and Dining discount of \$750. In addition, eligible recipients who are non-Ohio residents will receive a \$4,500 discount off the nonresident surcharge. More details about specific eligibility criteria for this program can be found at <http://www.ohio.edu/admissions/gateway/>.

Deans Scholarships. These scholarships are one-year awards, valued at \$1,250 to \$2,000, for upperclass students and transfer students who have earned more

than 48 credit hours. Selection is based on undergraduate enrollment, hours earned, and accumulative g.p.a. You must reapply and compete annually for renewal. To be considered, you must have a 3.4 accumulative g.p.a. after winter quarter, have earned 32 hours during fall and winter quarters, and be projected to earn 48 credit hours for the year. Recipients must carry at least 16 hours each quarter to receive the award.

Fine Arts Talent Awards. These scholarships, with varying award amounts, are awarded to students in the College of Fine Arts based on academic test scores, class rank, and talent. The College of Fine Arts places particular emphasis on talent through an audition or portfolio review for applicants. To renew the award, recipients must maintain a 3.0 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award.

Templeton Scholar Awards. These scholarships are valued at the cost of in-state tuition and fees, room, board, and a book allowance and are awarded to academically talented incoming first-year students from disproportionately represented groups. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. To renew the award, recipients must maintain a 3.0 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award. In addition to the scholarship, the award includes an academic success program.

Urban Scholars Program. The Urban Scholars Program is a scholarship initiative that actively seeks high school students from urban areas to come to Ohio University. Students from historically disproportionately represented groups are eligible for the program, which provides scholarship support to those who demonstrate excellent academic achievement and financial need. The Urban Scholars Program includes: a four-year renewable scholarship; an annual book stipend; participation in a summer pre-matriculation program; participation in academic support seminars; a mentoring experience with an Ohio University alum throughout the student's academic career; funding to attend an approved professional conference in the junior year; an annual leadership seminar; participation in a residential learning community; participation in a faculty-guided research experience; an internship experience; and technology and research training.

King/Chavez/Parks Awards. These awards, with varying award amounts, are awarded to academically talented incoming first-year students from disproportionately represented groups. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. To renew the award, recipients must maintain a 2.75 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award. In addition to the award, students participate in an academic success program.

OU Incentive Awards. These awards, with varying amounts, are awarded to academically talented incoming first-year students from disproportionately represented groups. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. To renew the award, recipients must maintain a 2.50 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award. In addition to the award, students participate in an academic success program.

Appalachian Scholars Program. The Appalachian Scholars Program provides scholarship opportunities for students from the 29 counties in Appalachian Ohio who demonstrate enthusiasm, motivation to succeed, academic achievement, and financial need. Five Ohio University campuses will participate in this program. Ohio University will work with the Foundation for Appalachian Ohio to identify potential scholars, form partnerships with regional high schools, and identify prospective supporters of the program. For each student selected, the program includes a four-year renewable scholarship, an annual book stipend, participation in an annual leadership seminar, funding to attend an approved professional conference in their junior years, internship opportunities, and technology and research training.

Cutler Scholars Program. This endowed undergraduate scholarship program provides tuition, fees, and room and board for the academic year, as well as funds for a structured summer internship or related experience. Students do not apply but are nominated by their high school or an Ohio University alumni chapter. Students selected for the program are evaluated against rigorous standards and must excel both in and out of the classroom. Awards are limited to students from certain locations or high schools, or to those in specific fields of study. These awards are offered to first-year students who are available

for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. Recipients must carry at least 16 hours each quarter to receive the award. Contact the executive director of the Cutler Scholars Program, Trisolini Gallery 210, Ohio University, Athens OH 45701-2979; telephone 740.593.4266.

Corporate Scholarships. Available to students majoring in specific academic areas (engineering, business, sciences) on the basis of high academic achievement. Eligibility requirements normally include high academic achievement and demonstrated financial need, and you must reapply annually for renewal. These awards range from approximately \$300 to \$2,000 a year. Recipients must carry at least 16 hours each quarter to receive the award.

Endowed Scholarships. Available to students with high academic achievement and/or demonstrated financial need, these scholarships are made available from contributions of alumni and friends of Ohio University and are usually restricted by geographic location, major, or other special criteria. Awards range from \$150 to \$3,000 a year. Recipients must carry at least 16 hours each quarter to receive the award.

National Merit Scholarships. These scholarships are awarded to National Merit finalists who indicate Ohio University as their first-choice institution. National Merit Scholarships are renewable for three additional years of undergraduate study with awards ranging in value from approximately \$750 to \$2,000, depending on financial need.

Reserve Officers' Training Corps Scholarships. Scholarships ranging from one to four years are available on a competitive basis for qualified students participating in the Air Force (Aerospace Studies) or Army (Military Science) ROTC programs. These scholarships pay costs of tuition, lab fees, and a flat rate for books. In addition, you receive a subsistence allowance at the rate of up to \$400 a month for the period the scholarship is in effect. Contact the Department of Aerospace Studies or the Department of Military Science.

Gift Aid—Grants

Federal Pell Grant. The Federal Pell Grant is a quasi-entitlement program from the federal government, which means that all eligible undergraduate aid applicants who have not received a bachelor's degree will receive funds based on their expected family contribution, enrollment status (full time, three-quarter time, half time, or less than half time), and the cost of educa-

tion. Upon submission of a FAFSA, you will receive a Student Aid Report (SAR) indicating the Expected Family Contribution (EFC). For 2006-2007, awards range from a minimum of \$400 to a maximum of \$4,050 (subject to change according to congressional appropriations). The Federal Pell Grant serves as the foundation upon which all other aid may be added, but ineligibility does not automatically exclude you from all other types of financial aid. The Federal Pell Grant is available only for three quarters for full-time status per academic year. If you attend summer quarter and are Pell eligible, you must receive one-third of your eligible portion during summer quarter. If you attend summer at less than full-time, you may receive a portion of your award for summer and another portion spring quarter, based on your spring enrollment.

Federal Supplemental Educational Opportunity Grant (SEOG). The Federal SEOG is awarded to undergraduate students on the basis of exceptional financial need beyond the Federal Pell Grant. These funds are awarded directly by the University and are limited to the funds allocated to the University by the U.S. Department of Education. Ohio University must have received the results of the FAFSA or Renewal Application by the March 15 priority deadline. The award is restricted to Federal Pell Grant recipients. The amount awarded to eligible applicants varies each year depending on the need of the student population enrolled at Ohio University. Students with a prior bachelor's degree are ineligible.

Institutional Grants. Institutional grants include the Ohio University Bobcat Grant (OUBG), Ohio University Access Grant (OUAG), and Ohio University Bobcat Award (OUBA) and are made available by the University to supplement the limited Federal SEOG funds for undergraduate students on the Athens campus with need or students with special circumstances. Ohio University must have received the results of the FAFSA by the March 15 priority deadline.

Ohio Instructional Grant (OIG). The OIG is a state-funded grant to assist Ohio residents in meeting the cost of undergraduate education. To be considered, you must submit the FAFSA. The deadline is October 1 of the award year, but you are encouraged to apply as soon as possible—ideally by February 15.

Ohio College Opportunity Grant (OCOG). The OCOG is a need-based state-funded grant to assist Ohio residents in meeting the cost of undergraduate education. It will replace OIG

for students enrolling for the first time beginning with the 2006 summer quarter. To be considered, you must submit the FAFSA. The deadline is October 1 of the award year, but you are encouraged to apply as soon as possible after January 1.

Self-Help Aid—Student Loans

Federal Perkins Loan. The Federal Perkins Loan is a federal loan for students enrolled in a degree program at a participating post-secondary institution. No interest is charged while you remain in school, and the repayment period begins nine months after you graduate or leave school. To apply, file the FAFSA or Renewal Application. The interest rate is currently five percent. You must sign a Master Promissory Note (including the "personal and confidential" form) or confirm your acceptance on our Web site (if you signed a Master Promissory Note in a previous year) before a disbursement can be made.

William D. Ford Federal Direct Student Loans. The Federal Direct Loan is a low-interest loan for students enrolled at least half time in a degree-seeking program. Since 1994-1995, Ohio University has been a Direct Lending Institution. The University acts as the lender on behalf of the U.S. Department of Education and disburses William D. Ford Federal Direct Loan funds directly to student accounts. The University cannot process Federal Stafford Loan applications from lending institutions such as banks.

There are two kinds of Federal Direct Loans—subsidized and unsubsidized. The federal government will pay the interest on the Federal Direct Subsidized Loan while you are in school and during a grace period or deferment period. You are responsible for paying the interest on any Federal Direct Unsubsidized Loan. However, you may defer payments and capitalize the interest until you enter repayment.

If you wish to apply for a Federal Direct Loan (subsidized or unsubsidized), you must file the FAFSA or Renewal Application to determine your eligibility. The Federal Direct Unsubsidized Loan is available if you do not qualify for the Federal Direct Subsidized Loan or if your eligibility for subsidized funds is limited. You will receive notice of eligibility on your award letter and must complete the Electronic Master Promissory Note or confirm your eligibility on our Web site (if you signed a Master Promissory Note in a previous year) before funds can be credited to your account. Funds credited in excess of charges will be refunded by the bursar at regular intervals during

the quarter. All first-time borrowers are required by federal regulations to complete entrance counseling before funds can be disbursed. If you are in repayment on prior loans, you may be eligible for a deferment, and loans can be consolidated under certain conditions. Additionally, federal regulations require that all borrowers complete exit counseling before graduating or once you have dropped below half time enrollment. Exit counseling provides information regarding borrower rights and responsibilities and outlines repayment options.

Ohio University Loans. During periods of enrollment, funds are made available by the University to provide short-term loans for students. These loans are available to assist in the payment of University bills and educationally related expenses, provided you are enrolled at least half time and have a guaranteed source of repayment that will be available by the end of the same quarter. A one-page application must be completed. The completed application will be reviewed to determine if you qualify for a short-term loan. Checks are generally available within three working days after the loan is approved. A personal interview with a financial aid administrator may be required. Students are not eligible if in default of previous institutional or federal loans. Borrowers are charged a \$5 processing fee and may be charged an interest rate of nine percent. Ohio University loans are not available during periods of nonenrollment.

William D. Ford Federal Direct Parent Loan for Undergraduate Students (PLUS). The Federal Direct PLUS Loan is a supplemental loan for parents of dependent undergraduate students. Your parent(s) must be your natural, adoptive, supporting step parent(s), or your legal guardian(s). Parent borrowers are subject to a credit check and must not have an adverse credit history. We require that you and your parent(s) file the FAFSA or Renewal Application to determine eligibility for other sources of aid. The Federal Direct PLUS Loan must be used for your educational expenses. Loan proceeds are applied directly to your account, and any refund (overage) may be refunded to you (with parent approval) or to your parent each quarter throughout the year. Repayment begins 60 days after the final disbursement. For additional information, visit our Web site at <http://www.ohio.edu/financialaid/>

Alternative Loans. Students may apply for additional loans through private lenders to help cover expenses. You

can borrow the total estimated cost of attendance (see your award letter) less your total financial aid. Students generally must have a positive credit history or provide a creditworthy co-signer. Interest rates and loan fees vary from lender to lender. Repayment begins six months after you graduate or cease half-time enrollment. For more information and a list of private alternative lenders, visit our Web site at: http://www-sfa.chubb.ohiou.edu/loans/loans_alt.html

Self-Help Aid—Employment Federal Work Study (FWS). This need-based federal program allows you to earn a portion of your educational expenses through part-time employment. If you have not been employed through FWS in the past, you will be directed as to how to select a position on your award letter. If you are a returning student you will be reassigned to your previous job site, unless you indicate that you wish to be assigned elsewhere. You are paid at least minimum wage for the number of hours actually worked. Students can choose to set up direct deposit or be paid by check every two weeks. Seven percent of Ohio University FWS positions must meet the definition for community service, and you may apply for available community service positions. The federal government stipulates that jobs available under the FWS program may not displace presently employed persons or fill regular job openings, including student employment.

Program to Aid Career Exploration (PACE). The PACE program, co-sponsored by the OSFAS and Career Services, is unique to Ohio University. The intent of the program is to provide you with the opportunity to earn money to help meet educational expenses while gaining career-oriented work experience. PACE students earn \$600 a quarter for no more than 100 hours of work. To be eligible for PACE employment, you must:

- 1 Be an undergraduate
- 2 Have earned at least 30 hours at time of application
- 3 Have at least a 2.3 accumulative grade point average
- 4 Be in need of earnings as defined by the OSFAS.

International undergraduate students who meet the above criteria are eligible to participate in the PACE program.

PACE employment is available only to Athens campus students who are enrolled full time and not simultaneously employed in FWS. PACE information

and applications are available on the OSFAS Web site at <http://www.ohio.edu/financialaid/>.

Centralized Student Employment Service (CSES). Ohio University established the CSES to provide job opportunity information for all students enrolled at least half time. Its purpose is to assist in hiring students for part-time jobs, to maximize employment opportunities and job placement, and to help coordinate student employment policies and procedures. CSES job opportunities are posted from all hiring departments at the Athens campus as well as off-campus employers.

Job listings appear on a board outside 020 Chubb Hall and on the OSFAS Web site. Employment opportunities for students are posted when new positions become available and when vacancies occur. You will be referred to potential employers for interviews and hiring decisions. Because the job posting service is centralized, you are assured an equal opportunity to apply for jobs. Most international students are eligible to use the CSES.

Job Location and Development (JLD). To assist students with finding off-campus positions, free job listings from community businesses and individuals are made by the OSFAS. Students who are enrolled at least half time may receive referrals to these off-campus job opportunities.

Postings are frequently made for summer and quarter-break jobs. OSFAS also hosts an annual Summer Camp-Resort Job Fair in February, which attracts recruiters from 50 camps and resorts in Ohio and the eastern United States. Admission is free, and 150 to 200 Ohio University students are employed by the camps each summer.

Services to Students

The OSFAS is open from 8 a.m. to 5 p.m. Monday through Friday. All financial aid applicants are assigned an advisor to assist with financial aid matters. You may schedule an appointment with your assigned advisor during OSFAS service hours (excluding the lunch hour from noon–1 p.m.). Advisor assignments are made alphabetically according to last name and are listed on the OSFAS Web site. Services provided by the advisors include confirmation of financial aid for preregistration, review of financial need and eligibility, and review of policies and procedures for different types of financial aid programs. Emergency situations may be accommodated immediately on a case-by-case basis. To ensure access to services, applicants with disabilities who require special assistance should contact the financial aid office to make arrangements.

Academic Policies and Procedures

Precollege Orientation

Incoming first-year and transfer students at Ohio University must participate in Precollege Orientation. You will meet with faculty, administrators, and other students who will inform you about University policies, academic requirements, and student services, as well as help you register for your first quarter classes. Precollege Orientation for fall quarter first-year students is held in one-and-a-half-day sessions during the summer. Transfer students attend one of two one-day sessions in mid-summer. A one-day session is held in September for both transfer and first-year students who cannot attend during the summer. Parents and spouses are encouraged to attend. Information will be mailed to you in early May.

In addition to Precollege, you will complete the online alcohol education course, "AlcoholEdu for College," and will participate in a series of additional orientation activities during the weekend preceding the beginning of fall quarter. Detailed information about both will be provided at Precollege. Failure to successfully complete "AlcoholEdu for College" may result in withholding of future course registration.

If you are entering the University in a quarter other than fall, a mandatory Precollege orientation and registration program will be conducted before the beginning of that quarter. Information will be sent to you from University College.

Further information about Precollege Orientation is available from University College, Chubb Hall 140, telephone 740.593.1951 or by visiting <http://www.ohio.edu/precollege/>.

Registration Information

Registration

As noted above, if you are an incoming first-year or transfer student, you will receive assistance with class registration along with other information during Precollege Orientation.

If you are a current or re-enrolling student at Ohio University, you should follow procedures for using the Web Registration system. The procedures appear in the *Schedule of Classes*, available online at <http://www.ohio.edu/registrar/>.

You must obtain your Registration Access Code (RAC) prior to registering for classes. Your RAC changes quarterly. Continuing students can obtain registration materials from their college, department, school, or advisor depending upon student's college. See the online quarterly *Schedule of Classes* for specific location of registration materials. Re-enrolling students should contact the Office of the University Registrar.

Late Registration

Registration is not permitted after the first 15 calendar days of the quarter (in the case of some individual classes, after the first day). All registration procedures

should be completed by the 15th calendar day of the quarter.

In cases where late registration is necessary, you will be charged a retroactive registration correction fee beginning with the third calendar week of each quarter unless late changes are the result of University delays as judged by the registrar. The fees are: third week, \$40; fourth week, \$60; fifth week, \$80; and sixth week, \$100.

Identification Card

When you register, you will be given information about obtaining an identification card, issued by Computer and Network Services (CNS), located in HDL Center room 154. This card, which is validated by your registration, gives you access to campus services including the meal plan, athletic events, library privileges, and the Student Health Service.

The card is issued free of charge according to these guidelines:

- 1 If you are a new student, you are issued a card free of charge.
- 2 If you are a re-enrolling student returning after one year or more, your old card will be valid upon registration. If you no longer have your old card, you will be issued a new card free of charge.

- 3 If your name or Social Security number has changed, you will be issued a new card free of charge provided you return your old card when the new one is issued.

Ohio University charges a card replacement fee under these circumstances:

- a You will be charged \$10 to replace a card that is lost, stolen, or damaged within one year of your last quarter of enrollment. (A \$5 refund will be issued if you find your old card and return it to CNS during the same quarter in which it was replaced.)
- b If your name or Social Security number has changed, you will be charged \$10 for a new card only if you do not return the old card. If you return the old card when the new one is issued, you will not be charged.

E-mail (your Oak account)

Your free Ohio University Oak e-mail account will be activated for you when you pick up your University ID Card at Computer and Network Services (CNS), 154 HDL Center.

It is imperative that you know your Oak ID and password, as many Ohio University services use this to authenticate access.

Your Oak account includes the following features:

- Free software
- Spam and virus filtering
- Web-based access
- Network file storage
- Personal Web page capabilities

Please check your Oak e-mail regularly for official University correspondence. Quarterly grades, schedules, billing notification, and other University communications are sent to your Oak account. Many Ohio University departments and professors depend on Oak e-mail for both announcements and assignments. We do not recommend forwarding your Oak account.

If you have problems accessing your e-mail or have questions, call the University Support Center, 740.593.1222.

Updating Personal Information

You must report any changes in your personal data to the Office of the University Registrar. This includes changes in name, social security number, birthdate, address, telephone number, or emergency contact information. Requests for changes in name, social security number, or birthdate must be accompanied by documentation verifying the correct information as required by the registrar's office. These requests should be sent to Registrar Services Windows, First Floor, Chubb Hall.

Address, telephone number, and emergency contact information may be updated online at <http://www.ohio.edu/registrar/> by selecting "Update My Address" under Quick Links to Online Services (Oak ID and password are required to use this service).

NOTE: International students in F-1 or J-1 status are **required** to update their addresses with Ohio University to meet immigration reporting requirements and should use the online "Update MyAddress" service.

You are responsible for any University communication sent to you at your official University e-mail address (Oak account) and/or mailing address on file with the Office of the University Registrar.

Enrollment Information

All course credit earned at Ohio University is designated in quarter hours. Normally a quarter hour is the equivalent of one lecture or two laboratory periods a week throughout the quarter.

Student Standing (Freshman, Sophomore, Junior, Senior)

Your student standing—or year in college—is determined by your total number of quarter hours earned. Freshmen have completed 0 to 44.9 hours; sophomores, 45 to 89.9; juniors, 90 to 134.9; and seniors, 135 and over.

Course Load

As an undergraduate student, you will usually carry a course load of 16–20 quarter hours, even if you are on academic probation. For tuition purposes, a course load of 11–20 quarter hours is assessed full-time fees by the University. If you receive financial aid or veterans educational benefits, or are a student athlete, you must carry a minimum of 12 quarter hours to be considered eligible. If you receive a scholarship you must carry a minimum of 12–16 quarter hours, depending on scholarship criteria. Note that completing 16 hours per quarter for three quarters per year for four years makes a total of 192 quarter hours—the minimum total required for a bachelor's degree from Ohio University.

If you schedule fewer than 11 credit hours, you will be assessed part-time fees for the quarter. If you register for more than 20 hours, you will be charged an additional fee for each hour over 20. Web Registration will not allow you to register for a course which causes the total hours to exceed the maximum. You must receive permission from your college or regional cam-

pus student services office to register for more than 20 hours in a quarter. If you are granted permission to exceed the maximum hours you will receive a Permission to Exceed Maximum Credit Hours form that should be returned to one of the Registrar Services Windows, First floor, Chubb Hall.

Veterans Educational Benefits. If you are an undergraduate planning to receive Veterans Education Assistance, you must register for at least 12 quarter hours for full benefits to be awarded. For more information about veterans benefits, contact the Veterans Coordinator, Registrar Staff Offices, First floor, Chubb Hall 108, 740.593.4186.

Student Athletes—Maintaining Eligibility. As a student athlete, after your first academic year in residence or after one season of eligibility in a sport, eligibility for competition shall be determined by your academic record in existence at the beginning of the fall quarter or at the beginning of any other regular quarter of that academic year, based on satisfactory completion of at least: (a) 36 quarter hours of academic credit prior to the start of the institution's fourth quarter following your initial quarter of full-time enrollment, with no more than 9 of the 36 quarter hours being earned during the summer term; (b) 27 quarter hours of academic credit since the beginning of the previous fall term or since the beginning of the certifying institution's preceding regular three quarters (hours earned during the summer may not be used to fulfill this requirement); and (c) 6 quarter hours of academic credit the preceding regular academic quarter in which you have been enrolled at any collegiate institution.

You must be enrolled in a minimum of 12 quarter hours to be eligible for practice or competition. Additionally, freshmen and sophomores must maintain a minimum accumulative grade point average of 1.8, while juniors and seniors must maintain a minimum accumulative grade point average of 2.0 to be eligible for competition.

You must declare a major by the beginning of your third academic year and have completed at least 40 percent of the specific degree program requirements. By the beginning of your fourth year, 60 percent, and by the beginning of your fifth year, 80 percent of the specific degree program requirements must be met.

Declaring a Major

Normally you will declare a major when you apply as a freshman or transfer student by indicating the name and the

six-character major code number on the application form. If you are unsure about a major, Ohio University allows you to enroll as an undecided major in University College or many other colleges.

Some programs of study have higher admission requirements than those set by the University in general, and admission to the University does not automatically grant admission into those programs. Consult the college in which the major is offered or the Office of Undergraduate Admissions for further information on limited or selective admissions policies for specific programs.

Changing Your Major or College

If you are classified as undecided and wish to declare a major, or if you would like to change your major, contact the college in which the major is offered to see if you meet the entry requirements.

Sometimes a change in major will necessitate transferring to another college (e.g., from Arts and Sciences to Communication). You then make application for transfer in the student services office of the college to which you would like to be admitted. If you are an Honors Tutorial College student, go to your college before applying to the student services office of the college to which you would like to be admitted. The change must be processed through the student services office of both colleges within the first 15 calendar days of the quarter (the specific date is published in each quarter's Schedule of Classes), or you will remain enrolled in the initial college for that quarter. You must fulfill degree requirements of the college into which you transfer. You may, however, pursue programs in more than one college simultaneously. Consult your college's student services office about double degrees and dual major opportunities.

Changing Your Class Schedule After Classes Begin

Note the terminology used in explanations of the deadlines that follow:

Quarter: any quarter, including the 10-week summer quarter

Sub-term: any five week summer session

In the case of flexibly scheduled classes (classes that meet for fewer days than a quarter or sub-term), the deadlines are pro-rated. Contact the registrar for deadline dates.

You may add a class, drop a class, or correct your registration using the Web Registration system before the quar-

ter or sub-term begins. However, adding certain classes after classes begin requires special permission from the instructor and is prohibited after the 15th calendar day. Dropping any class after the 35th calendar day of a term or 17th calendar day of a sub-term is prohibited except by petition through your college's student services office. (See "Drops" below.)

Adds. You may add a class via Web Registration only during the first 8 calendar days of any quarter or sub-term. However, please note that departments or individual instructors may close registration for their courses prior to the 8th calendar day. After the 8th calendar day and through the 15th calendar day of any quarter, you may add a class only with instructor permission. For classes requiring the instructor's permission, you will need to obtain a permission slip from the instructor or departmental representative and then return the slip to the office indicated on the slip for final processing. You may add a class for which you have not met the prerequisite only by receiving the instructor's permission to take the class.

After the first 15 calendar days of the quarter (8 calendar days of the sub-term), your schedule becomes official. Your final tuition charges are based on your enrollment as of the deadline.

Drops. You may use Web Registration to drop any class except your last class (see Cancelling Registration or Withdrawing from the University below) through the 35th calendar day of a quarter or the 17th calendar day of a sub-term. Dropping a class is prohibited after these deadlines, but under very exceptional circumstances you may petition your college in writing to make an exception. Your reason must be substantial. Fear of earning a low grade in the class, for example, is not considered to be an exceptional circumstance.

If you drop a class during the first 15 calendar days of a quarter or 8 calendar days of a sub-term, there will be no record of that class on your academic record. When you drop a class after the 15th calendar day of a quarter (8th calendar day of a sub-term), your instructor will assign either a grade of Withdrawn Passing (WP) or Withdrawn Failing (WF), indicating your academic progress at the time the class was dropped. These grades will appear on your academic record and subsequent DARS reports, in addition to your official transcript. They do not affect your g.p.a.

If you drop hours through the 15th calendar day of a quarter (8th calendar day of a sub-term), you are entitled

to a 100 percent refund of the reduction if the change results in a reduction of registration fees provided you are not dropping all hours (see Cancelling Registration or Withdrawing from the University below). Changes made after the deadlines will result in no refund. If you are receiving financial aid, a change in enrollment status may result in your having to repay programs from which you received aid. (See "Refund of Fees" for more information.)

After the first 15 calendar days of the quarter (8 calendar days of a sub-term), your schedule becomes official. Your final tuition charges are based on your enrollment as of the deadline. If you withdraw from the University or reduce your courseload after the deadline, you must still pay the full tuition fees and your class(es) will remain on your academic record with WP/WF grade(s). Withdrawal during the first 15 calendar days of a quarter or 8 calendar days of a sub-term results in an 80 percent tuition refund.

Only in extreme instances in which circumstances beyond your control make you unable to have your registration in order by the 15th or 8th calendar day deadlines will the University consider making an exception to this policy. Even then, such decisions are made by a special review panel and require that formal documentation such as a doctor's statement be submitted to the Review Panel. The student services office in your college can help you present an appeal to the review panel.

Cancelling Registration or Withdrawing from the University (Dropping All Classes)

Cancellation Before Classes Have Begun. Cancellation of registration is defined as dropping all classes before the first day of classes. This includes all classes for which you are registered on all (one or more) campuses, but not distance learning courses in the Division of Lifelong Learning, for which students register and pay separately. You may cancel your registration by using Web Registration, or you can call or visit the registrar's office or the student services office of your college to obtain a cancellation of registration form, which you then complete and return to the registrar's office. An adjustment of your registration fees is made according to the schedule in the Refund of Fees section. Cancelling registration for a term does not prevent a student from registering for a future term.

Withdrawing After Classes Have Begun. Withdrawing from the University is defined as dropping all classes on or

after the first day of classes and no later than the day before the last day of classes for the quarter or sub-term. Note that this means all regular Ohio University classes for which a student is registered for a given term, whether on one campus or more than one. This does not prevent a student from registering for a future term. Withdrawal is not permitted on or after the last day of classes. This may not be done using Web Registration. Apply for withdrawal by completing a withdrawal request form obtained from the student services office of your college or regional campus. When the request has been approved by the college or regional campus student services office and housing, your withdrawal is processed by the registrar's office, which grants an official withdrawal after determining that all obligations to the University have been met.

Tuition Issues

When changes in a student's registration affect the total registration in a way that changes the amount of tuition, the student will receive the appropriate fee adjustment or pay the appropriate forfeiture for the class(es) dropped, according to the deadlines for those classes, and the tuition for the remaining registration will be re-calculated.

Tuition for summer students who schedule a total of 11 or more hours in any combination of summer registration in the full term or the two sub-terms will be calculated in the usual way (1-10 hours equal part-time, 11-20 hours equal full-time for undergraduates; 1-9 hours equal part-time, 10-18 hours equal full-time for graduates). When dropping classes affects the total registration for the summer in a way that changes the basis for tuition, the tuition will be re-calculated for the remaining registration, and the student will receive the appropriate fee adjustment or pay the appropriate forfeiture for the class(es) dropped, according to the deadlines for those classes.

Your change in enrollment status may result in your having to repay programs from which you have received financial aid. See the Refund of Fees and Financial Aid sections for further information.

Multiple Consecutive Withdrawals. Two or more consecutive withdrawals can be cause for placement of a registration hold on your record by the registrar or your academic dean. A petition to release this hold would be considered by your academic dean.

Withdrawing for Medical Reasons. In the event of serious physical or mental

illness, you may arrange for a medical withdrawal from the University. Your withdrawal will be effective on the date you sought treatment from the Student Health Service for your illness or injury, or the last date you attended classes, depending on your particular circumstances. If you were treated by an outside physician who has recommended a medical withdrawal, that recommendation must be sent to the medical director of the Student Health Service.

To arrange for a medical withdrawal, contact the medical director of the Student Health Service (for physical health problems) or the director of Counseling and Psychological Services (for mental health problems). The director will make a written recommendation to your academic dean for a medical withdrawal.

It is possible to withdraw for medical reasons through the day before the last day of classes for the quarter or the summer subterm. After that, the appropriate director and the dean of your college must agree on the withdrawal.

If you are granted a medical withdrawal, you will receive notification in the mail from the medical director. A fee adjustment, if applicable, will be based on the effective date of your withdrawal and will be made according to the schedule in the Refund of Fees section. A medical hold will be placed on your records, and to re-enroll you will have to request a medical clearance from the appropriate director. When the clearance is approved, the hold will be released.

Class Attendance Policy

The weight given to class attendance in determining your grade is an academic matter; thus, all instructors are responsible for their own attendance policies. Though your instructor will state specific attendance requirements during the first week of classes each quarter, the University does expect you to attend classes regularly.

Excused Absences. Although instructors' policies govern how excused absences will be handled in their classes, certain absences are considered legitimate by the University. These include illness, death in the immediate family, religious observance, jury duty, and involvement in University-sponsored activities.

If you are returning to classes after a legitimate absence, you can expect your instructors' assistance (makeup work, excused absences, recalculation of the student's grade based on remaining work) within the limits of their established attendance policies. There are occasions when the size or the nature

of the course makes it necessary to limit the number of excused absences or the availability of makeup work, particularly for examinations or such special events as field trips or outside speakers. Such limitations should be explained in the instructor's attendance policy at the beginning of each class. *If you are involved in University activities that may conflict with your class schedule, check with your instructor as early as possible to make satisfactory arrangements.* You may document reasons for your absence as follows:

If you are participating in an authorized University activity (departmental trip, music or debate activity, ROTC function, or athletic competition), you can obtain notification from the sponsoring office. If you are hospitalized at O'Bleness Memorial Hospital, you are not issued a notification of class absence. However, you may request that your instructor call the Student Health Service to verify your hospitalization. If you receive out-patient care at the Student Health Service, you will not be issued a notification of class absence. However, if you give written permission for the information to be released, you may request that your instructor call for verification that you received outpatient care. It is assumed that, whenever possible, you will visit the health service as an outpatient without missing class.

If you receive medical care from personnel or facilities other than the Student Health Service, you are required to provide verification of the dates you received care.

If your grade has been affected by a legitimate absence or absences that your instructor does not excuse, you may appeal through the normal grade appeal process (first through the instructor, then the department chair or school director, and then the dean of your college). If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department or school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal.

Two-Hour Rule. If you miss the first two contact hours of a class, the instructor has the option of not admitting you to the class whether or not you are registered for it. (This policy applies to the first two hours of a class, not to the first two class meetings.) If you miss the first two contact hours, check with your instructor to verify your status in the class. If you have not been admitted, you will need to drop the class through

Web Registration. (See "Change of Course Schedule.")

Note: If the instructor does not admit you to the class, you still must drop the class from your schedule using Web Registration. Otherwise, you will receive an F, an FN (failure never attended), or an FS (failure stopped attending) for the class at the end of the quarter.

Auditing

You may register to audit classes, which allows you to preview or review courses without receiving a grade or credit hours, but the choice to audit must be made and identified at the time of registration. Changes from audit to credit or from credit to audit must be made during the first 15 calendar days of the quarter (first 8 days of summer subterm). Audited classes count in calculating tuition, but they do not carry credit or count toward financial aid eligibility. Audited courses will appear on your official transcript but will not affect your g.p.a. or hours earned. Auditing a class is not the same as taking it on a pass/fail basis. (See Pass-Fail Grading Option, later in this section.)

Your instructor may set up specific requirements for auditing the class, and if you do not meet the requirements, you may be removed from the class at your instructor's discretion with a grade of WP or WF. Be sure to discuss your auditing status with your instructor at the first class meeting.

Senior Citizens Sixty Plus Program

Ohio State Law (Section 3345.27 of the Ohio Revised Code—House Bill 147—effective March 30, 1999) permits the qualifying student to attend any state college or university without paying "tuition or matriculation" fees. (Special course fees, technology fees, laboratory fees, etc., are the responsibility of the student and will not be waived.) This program is available only for regular classroom undergraduate courses offered on the Athens and regional campuses and only if space is available in the class. Registration will be processed only after priority registration for other students is completed. Qualifying student is defined as "any person who is sixty years of age or older and who has resided in the state for at least one year." Under this provision, the student has two options:

Option A—Non-Credit. The qualifying student who wishes to participate in classes but not for credit asks permission of the instructor to sit in on the class. The student should complete the Application for Sixty Plus Program, obtain appropriate signature(s), and return the application to the Office of the University Registrar or regional cam-

pus student services office with proof of age and Ohio residency.

Option B—For Credit. The Option B procedures are for the qualifying student who wishes to earn credit for the tuition-free courses. The academic load under this arrangement for a given quarter must be less than full-time; i.e., less than 11 quarter hours. In addition to being a "qualified student" as described above, the student's family income must be "less than two hundred percent of the federal poverty guideline, as revised annually by the United States secretary of health and human services in accordance with Section 673 of the 'Community Services Block Grant Act,' 95 Stat. 511 (1981) 42 U.S.C.A. 9902, as amended, for a family size equal to the size of the family of the person whose income is being determined." The student should complete the Application for Sixty Plus Program and follow the instructions for processing as described on the application.

Applications for enrollment may be obtained at the Registrar Services Windows in Chubb Hall, First Floor.

Visiting

You must be a registered student or approved under Sixty Plus program in order to attend classes at Ohio University. If you are a full-time student, you also have the privilege of visiting classes for which you haven't specifically registered if you obtain the instructor's permission ahead of time.

Taking Graduate-Level Courses

As an undergraduate student, you are not eligible to take graduate courses for credit unless you are in the Honors Tutorial College or participate in one of the following programs:

Honors Tutorial College. Students in Honors Tutorial College may complete graduate courses for credit. Graduate courses (courses numbered 500 or above) will automatically become part of their undergraduate record (transcript and DARS report). If the HTC student wants the graduate course(s) to become part of his/her graduate record then he/she must contact the Honors Tutorial College to complete the appropriate application form. This paperwork should be completed prior to the term in which graduate credit is sought.

Departmental Honors. Students in a recognized departmental honors program may take a maximum of three graduate courses in their major department during their senior year (i.e., after earning 135 or more hours of credit). Hours earned in these courses will count toward total hours required for the undergraduate degree only and the

grades will be calculated into the undergraduate g.p.a. Registration in graduate courses requires written permission from the instructor. Participation in this option is at the discretion of the department or school. Students process this special registration by obtaining permission from the departmental honors coordinator and submitting the approval form to the Registrar's Office for processing.

Senior for Graduate Credit. If you are an Ohio University student, or a well qualified senior attending another university and within nine hours of completing all requirements for a bachelor's degree, you may be eligible for graduate study as a senior. You must have an overall g.p.a. of at least 2.5 and obtain written permission from the graduate chair of each department offering the graduate courses and from your college Student Services Office. Permission to take such courses does not grant admission to a graduate degree program. If you are admitted as a senior for graduate credit, you will pay undergraduate fees and will not be eligible for graduate assistant or graduate scholarship support. Generally, no more than two graduate courses may be taken in this way, and graduate courses will not fulfill any undergraduate requirements. The graduate credit becomes part of your graduate record only; it does not affect your undergraduate course requirements, hours earned, or g.p.a.

Senior for Graduate Credit paperwork should be completed and submitted to the Graduate Studies Office prior to the start of the quarter for which that status is sought.

Request this option through the Office of Graduate Studies, McKee House, before registering. A \$10 application fee is charged, and admission is granted for one quarter only.

Early Admission to a Graduate Program. Based on superior undergraduate performance, you may qualify for early admission to a graduate degree program. You must have an overall g.p.a. of at least 3.5 and must have completed all undergraduate requirements, except the total credit-hour requirements, by the time you enter the graduate degree program. You also must obtain written permission from your department, the department's graduate committee, and the Student Services Office of your undergraduate college. Once admitted, you may enroll in graduate classes for graduate credit. These classes can be used to satisfy both graduate degree requirements and undergraduate total credit hour requirements, but the hours

and grades are part of your graduate record only. Apply through the Office of Graduate Studies, McKee House, before registering. If you qualify, you pay graduate fees only and are eligible for graduate assistant or scholarship support.

Students in the Honors Tutorial College must complete the HTC Combined Degrees form as part of the application for early admission.

Final Examinations

Final examinations for classes are held during a formal examination period at the end of the academic term. You are required to take the examinations according to the schedule published by the registrar's office in the quarterly Schedule of Classes, which is available online at <http://www.ohio.edu/registrar/>.

Each final examination is scheduled for two hours. Final examinations are given in the regularly scheduled classroom unless the instructor is giving a combined sections examination. Instructors will notify students in courses having combined sections examinations of the time and location of the classroom where the examination will be given.

Students will not be required to sit for more than three final examinations in one day. Should a student be scheduled for more than three examinations in one day, the student may seek relief from the instructor with the examination scheduled latest in the day. This process must be initiated and completed by the ninth week of the quarter. The instructor will provide an examination for the student at a mutually agreed upon time during the examination week.

The final examination for departmental honors work must be taken before the opening of the regular examination period. Consult your departmental honors program coordinator for more information.

Grading

At the close of a session or upon completion of a class, the instructor reports a final grade indicating the quality of a student's work in the class. The University Registrar's deadlines for submitting grades each quarter or session must be met. Failure to do so creates problems for students such as loss of employment, scholarships, financial aid, and opportunities for further study. Once grades are submitted to the University Registrar, they are final and cannot be changed unless evidence of an error can be presented or a formal

grade appeal process is completed in accordance with Ohio University's official grade appeal policy (see "Grade Appeals" below). **Grades cannot be changed by arranging to complete additional work.** Grade point values are assigned for each quarter hour of credit completed according to the grading system below.

The basis for determining a student's scholastic standing is the grade point average (g.p.a.). This average is determined by dividing the total number of grade points earned by the total number of quarter hours of credit attempted. For example, if a student earned a C (2.0) and a B (3.0) in each of two five-hour courses, first multiply the number of hours in each course by the grade point value for that grade ($5 \times 2 = 10$ and $5 \times 3 = 15$) and add the grade points for each course together to find the total number of grade points (25). Then add the number of hours attempted ($5 + 5 = 10$) and divide the total number of grade points by the total hours attempted ($25/10 = 2.5$). The student's g.p.a. after completing the two classes would be 2.5. A student's g.p.a. is figured only on credit hours attempted—courses for which the student receives letter grades (A-F), FN (failure, never attended), or FS (failure, stopped attending). FN and FS have the same value as an F. Grades of P (pass) and CR (credit) represent hours earned but are not used to calculate the g.p.a.

A course for which a grade has been assigned by a faculty member will not be removed from the student's academic record without approval of the Review Panel and the instructor (see Policy 12.050, "Student Class Drops and Withdrawals" and the *Faculty Handbook*).

A course for which graduation credit is not allowed or a course which has been retaken, will be identified on the student's academic record (transcript). Grades for these courses do not affect the grade point average, and credit hours do not count toward graduation.

Repeating a Course

Repeating a course is to complete a course more than once for credit. This can be done only with repeatable courses, which are designed to be taken multiple times (e.g., MU5 340, PSY 490). Some departments place a limit on the total number of credits that may be earned in a given repeatable course.

Retaking a Course

A regular course with fixed content can be retaken to affect the student's g.p.a. Retaking the course removes the hours and the effect of the ear-

lier grades from the calculation of the g.p.a. However, all grades appear on the permanent academic record (transcript). The last grade earned is the one used to calculate the g.p.a., even if it is lower than the earlier grade(s), and only the last instance's credit hours are accepted toward any requirements for graduation. Some graduate and professional schools will include all grades in their own calculation of the g.p.a. when determining a student's eligibility for admission, even though Ohio University calculates the g.p.a. using only the last grade in a retaken course.

As a rule, a course designed as a prerequisite may not be retaken to affect the g.p.a. after completion of higher-level coursework in the same subject area. Courses taken at Ohio University and retaken at another university are not eligible for grade point adjustment under this policy. Some departments limit the number of times a course may be retaken. Students should check with their college student services office regarding restrictions.

Retaking a course after graduation will not change graduation g.p.a., honors status, or rank in class.

Pass/Fail Grading Option

Taking a course pass/fail is an option designed to encourage you to explore areas of study in a way that will not negatively affect your g.p.a. See the description of the "P" grade for additional information and restrictions for use of this option.

Transfer Credit Grades

Grades for all acceptable transfer courses in which grades of C- or better are earned are converted to "T" on the student's academic record and the Degree Audit (DARS) Report. Effective Fall Quarter 2005–2006, Ohio University will accept and apply transfer courses from Ohio public institutions in which grades of D+, D, or D- are earned. These courses will reflect a "TD" grade on the student's academic record and DARS report (per Ohio Board of Regents policy to ensure the equitable treatment of transfer students across Ohio's public institutions of higher education). The number of quarter hours of credit earned at each institution is recorded on the permanent record transcript, but no grades are recorded. Transfer students, therefore, enter Ohio University with no grade point average on their Ohio University academic records.

Prior to Fall Quarter 2005–2006, D+, D, or D- grades were not transferable. However, if a student earned a D+, D, or D- in a course which was a specific prerequisite (as stated in the academic cat-

alog of the prior school) to a course in which the student earned a grade of C- or better, then the course in which the D+, D, or D- was received was accepted for credit earned, and the T was recorded on the DARS report.

Segmented Transcript Policy

The segmented transcript policy was developed as a way to allow students who leave the University with low grades and re-enroll after an absence of four or more years to begin coursework without the threat of academic probation. Under this policy, all of the student's courses are reflected on the transcript, but the g.p.a. grades earned earlier are changed temporarily to CR (for any passing grade) and NC (for any failing grade), which removes them from the calculation of accumulative g.p.a., while the hours earned will be carried forward.

The new g.p.a. after segmentation will be used for determining probationary status and liability of being academically dropped. The new g.p.a. also may be used, at the discretion of relevant officials or committees, to determine eligibility for entrance to academic programs or for scholarships and honor societies, although they also have the option of using the combined (true) g.p.a.

However, the g.p.a. for determining the 2.0 minimum overall g.p.a. for graduation and in the major, as well as honor status at graduation, is based on all hours attempted at Ohio University, including those attempted before segmentation. Upon graduation, the Registrar will return all grades to the originals and recalculate the g.p.a. Upon graduation, students may request a letter from their academic dean; this letter will explain the Segmented Transcript Policy and include the student's "Fresh Start" g.p.a. (the g.p.a. since segmentation).

Subsequent gaps of four or more years will not qualify students for further transcript segmentation.

The student must petition the student services office of the college dean to have the transcript segmented.

Grade Appeals

The instructor assigned to a class has full responsibility for grading, subject to the appeal process described in this section. A student may appeal a grade through the chairperson of the department to the dean of the college, provided that a concerted effort was made by the student to resolve the matter with the instructor. The burden of proof for a grade change is on the student, except in those cases involv-

I. Grades Used in G.P.A. Calculation

Letter Grade	Numerical Equivalent (Grade Point Value)	Description	Assigned by Faculty Member
A	4.0	Excellent	Yes
A-	3.67	Excellent	Yes
B+	3.33	Good	Yes
B	3.00	Good	Yes
B-	2.67	Good	Yes
C+	2.33	Acceptable	Yes
C	2.00	Acceptable	Yes
C-	1.67	Acceptable	Yes
D+	1.33	Passing but Minimally Acceptable	Yes
D	1.00	Passing but Minimally Acceptable	Yes
D-	0.67	Passing but Minimally Acceptable	Yes
F	0.00	Failing	Yes
FN	0.00	Failure, Never Attended. This grade is given when the student does not officially drop a class for which he or she is officially registered but did not attend. FN counts as an F in the g.p.a. As with any other undergraduate grade in a nonrepeatable course, the FN may be replaced in the grade point average by the last grade earned if the course is retaken.	Yes
FS	0.00	Failure, Stopped Attending. This grade is given when the student stops attending but does not officially drop a course for which he or she officially registered and attended at least once. It counts as an F in the g.p.a. In addition, the last date of attendance indicated is recorded on the student's academic record. As with any other undergraduate grade in a nonrepeatable course, the FS may be replaced in the grade point average by the last grade earned if the course is retaken.	Yes
I*	0.00	Administrative Incomplete. Calculated as "F." Student either did not attend or stopped attending without officially withdrawing. Replaced with FN and FS fall 1998-99.	Yes—Inactive

II. Credit Only—Included in Hours Earned but Not Used in G.P.A. Calculation

Letter Grade	Numerical Equivalent (Grade Point Value)	Description	Assigned by Faculty Member
CR	N/A	Credit. A report of credit may be made for certain preapproved courses. Credit is to be used primarily for graduate level courses. Regardless of the level, using a CR grade for a specific course requires prior approval of the University Curriculum Council. Some colleges may limit the number of CRs applied to major and degree requirements.	Yes
P	N/A	Pass. Conversion of grades A through D- under the pass/fail option. The pass/fail option is designed to encourage students to explore areas of study which they might otherwise hesitate to enter. To be eligible, the student must have a g.p.a. of 2.5 or better for his or her latest quarter of full-time enrollment, or have an accumulative g.p.a. of 2.0 or better. First-quarter freshmen automatically qualify. The pass/fail grading option is subject to the following restrictions: 1) No course taken pass/fail may be used to fulfill any graduation requirement (college, school, or departmental) other than the total hours requirement. For example, courses taken pass/fail cannot be used to meet distribution requirements, minor or certificate requirements, requirements of courses above a specified level, a specific course established as a major requirement, or any other such requirements in the student's program. Colleges may refuse permission to use the pass/fail option for courses that are eligible to meet any such requirements that have not already been met by the student; if they do grant permission in such a case, the student will have to meet that requirement with some other course. Such courses taken pass/fail prior to the student's entering the program cannot apply to program requirements other than total hours for graduation. 2) The student may take no more than one class per quarter or sub-term by pass/fail. 3) The student may complete no more than 20 quarter hours under this option. 4) The instructor is not to know who elects his or her course on the pass/fail option. A letter grade will be turned in and then converted to a P or F on the student's academic record by the registrar. The original letter grade cannot be retrieved. To initiate the pass/fail option the student should register for the class via Web Registration, and then contact his or her college or regional campus student services office (during the first 15 calendar days of the quarter or first eight days of a sub-term only) to request that a class be taken pass/fail. Pass/fail requests by regional campus students are reviewed by the student's college student services office on the Athens campus, and may be denied if an inappropriate choice has been made. Pass/fail applications cannot be processed through Web Registration.	No
S	N/A	Satisfactory. Same Value as "CR" grade. Became inactive Fall 1967-68.	Yes—Inactive
T	N/A	Transfer Credit. Credit transferred with grade of C- or better.	No
TD	N/A	Transfer Credit D Credit transferred with grade of D+, D, or D- from an Ohio public institution of higher education. Effective Fall 2005-2006.	No

III. No Credit—Not Included in Hours Earned and Not Used in G.P.A. Calculation

Letter Grade	Numerical Equivalent (Grade Point Value)	Description	Assigned by Faculty Member
AU	N/A	Audit. Indicates formal participation in a class, but not for credit or a regular grade. The student who registers for an audit is expected to attend and participate in the class according to the instructor's policy. Failing to do so can result in removal of the Audit from the record. (If this action results in a change of fees, the University policy on refund of registration fees will apply.) Audited classes are calculated in the tuition fees.	No
I	N/A	Incomplete. Receiving an "I" means that the student has not completed the work required for a regular grade. The student must have the instructor's permission to receive the Incomplete. The student must complete the work within the first six weeks of his or her next quarter of enrollment or two years from the end of the term in which the grade of "I" was given, whichever comes first, or the "I" converts automatically to an "F." The instructor may request a one-time extension to the end of the quarter by completing a request for the extension through the Registrar's Office. When the student applies for graduation, any Incompletes on the record will be calculated as "F" grades for the purpose of determining eligibility for graduation and will be converted to "F" six weeks after graduation.	Yes
NC	N/A	No Credit. Conversion of freshman "D," "I," and "F" grades from summer 1969-70 through summer 1976-77 for courses taken under the ABC Grading System option. Also replaces all "F" grades under Segemented Transcript Policy (began fall 1985-86). NC grades are submitted by faculty to indicate non-passing performance by students in courses in the Ohio Program of Intensive English (OPIE).	No—except for OPIE
NR	N/A	No Report. This grade is assigned when: 1) The instructor does not report the grade; 2) The instructor reports the grade too late for quarterly processing; or 3) The instructor reports an ineligible grade for the grade eligibility code of the course.	No
PR	N/A	Progress. This grade is primarily used at the graduate level and applies only to a few very specific pre-approved undergraduate courses that are designed to span more than one quarter. This grade indicates that the student has made progress in the course but has not finished the work required for a letter grade. It may extend longer than one quarter.	Yes
W	N/A	Withdrawal. Officially dropped class or withdrew from University. Became inactive fall 1973-74.	No—Inactive fall of 1973-74
WP	N/A	Withdrawn Passing. This grade designates classes dropped after the 15th day of the quarter (eighth day of a sub-term). It indicates that the student was passing at the time of withdrawal.	Yes
WF	N/A	Withdrawn Failing. This grade designates classes dropped after the 15th day of the quarter (eighth day of a sub-term). It indicates that the student was failing at the time of withdrawal.	Yes

ing charges of academic dishonesty. If the dean concludes that the student has insufficient grounds for an appeal, there can be no further appeal by the student. If the dean concludes that sufficient grounds do exist for an appeal, the dean shall appoint a faculty committee of five members, including the chairperson of the department in question, to consider the case. If a majority on the committee decide that the grade should be changed and the instructor does not accept the recommendation, the committee can authorize the registrar to change the grade. The decision of the committee is not subject to further appeal. In appeal cases in which the chairperson is the instructor, the dean is authorized to appoint an alternate member from the same department to the committee; if the dean is the instructor, the role of dean will be assumed by the provost. In appeal cases involving courses taught by faculty from more than one college, the dean of University College will review the appeal and, if necessary, appoint the appeals committee. In these cases, the appeals committee shall include the additional chairperson(s). In unusual cir-

cumstances (e.g., death, incapacity, or indefinite accessibility of the instructor), the departmental chairperson is responsible for the final grade, subject to appeal by the student to the dean as described in this section.

Complete information on the rights and responsibilities of students and faculty relative to grade appeals is available at the Office of the Ombuds. If you need assistance in understanding the grade appeals process, or in preparing a grade appeal(s), contact the Ombuds, Crewson House 200, 593.2627. The office will be able to be of greatest assistance if you make contact early in the process.

Academic Status

Deans List

The Deans List, compiled quarterly, includes the names of all students whose g.p.a. for the quarter is at least 3.5 for a minimum of 16 quarter hours of credit earned, including at least 12 hours attempted for letter grades that are used to calculate your g.p.a.

Academic Probation

To avoid academic probation, you must maintain an accumulative g.p.a. of at least 2.0. At the close of each quarter in which you are a full-time student, your record will be reviewed to verify your g.p.a. If you are a part-time student, the review will take place at the close of the quarter in which your accumulative number of hours of enrollment since your initial enrollment, or since your last review, exceeds 10.

Probation and Continuation. If at the time of the review you do not have the required 2.0 minimum g.p.a., you will be placed on academic probation. If you are already on probation, you may be allowed to continue at the University until the next review if, in the opinion of the dean, you are making adequate progress toward attaining a 2.0 g.p.a. A continuance can be granted a maximum of three times; thus, there is a limit of four consecutive quarters on academic probation if you are a full-time student.

Normally, adequate progress is based on reducing, or at least not increasing, the number of deficiency points you have, which is determined by multiplying your total number of hours attempt-

ed by two and subtracting grade points earned. For example, if you have attempted 40 hours and have earned 65 grade points for those hours, first multiply hours by 2 ($40 \times 2 = 80$). Then subtract the number of grade points ($80 - 65 = 15$ deficiency points). Increasing your grade points for additional hours can decrease your deficiency points and show that you are making adequate progress. This can be done by earning grades of C+ and above in the hours you attempt.

Some colleges require higher standards of performance than the University's 2.0 minimum. If you have been dropped from a college because of failure to meet such additional standards but are not subject to dismissal according to the University rules below, you are still eligible for admission to other programs in the University.

Removal from Probation. Removal of probationary status is automatic at the close of the quarter of review for both part-time and full-time students when your accumulative g.p.a. rises to 2.0 or above. Part-time students may be on probation between quarters of review even though their g.p.a. is 2.0 or higher.

Dismissal (Drop) and Reinstatement. If you are denied continuation of probation, you will be dropped from the University. A status of "Drop I" means you were dropped because of an increase in deficiency points. "Drop L" means you reached the limit of four probationary quarters. If you have been dropped, you are not able to enroll for regular courses on any Ohio University campus.

You may petition the dean of your college for reinstatement, but normally reinstatement will not be granted until at least 12 months after your dismissal. As a condition for reinstatement, the dean of your college may suggest remedial steps you can take, usually in the form of courses to be taken at other institutions or through Ohio University's Distance Learning courses in the Division of Lifelong Learning. Successful performance in this coursework may constitute sufficient grounds for waiving or shortening the waiting period for reinstatement.

If you have been dropped from the University for a second time, reinstatement is possible only under extraordinary circumstances and usually is not granted until at least 24 months after the second dismissal.

Academic Misconduct

All forms of academic misconduct are prohibited by the Student Code of

Conduct (<http://www.ohio.edu/judiciaries/conduct.cfm>). Academic misconduct refers to dishonesty in assignments or examinations (cheating); presenting the ideas or the writing of someone else as your own (plagiarism); or knowingly furnishing false information to the University by forgery, alteration, or misuse of University documents, records, or identification. Academic misconduct includes, but is not limited to, permitting another student to plagiarize or cheat from your work; submitting an academic exercise (written work, printing, sculpture, computer program) that has been prepared totally or in part by another; acquiring improper knowledge of the contents of an exam; using unauthorized material during an exam; submitting the same paper in two different courses without the consent of your professors; or submitting or causing to be submitted a forged grade change slip.

If you have committed any act of academic misconduct as determined by the judgment of a faculty member or by the procedures of the Office of University Judiciaries, serious action—which may include failure of work undertaken, failure in the course, and formal disciplinary action, including suspension or expulsion—will be taken against you.

In cases of academic misconduct, a faculty member has the authority to administer a failing grade. If your course grade is lowered by an instructor who has accused you of plagiarism, you may appeal this grade first through the instructor, then the department chair or school director, and then the dean of your college. If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department or school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal. The faculty member also has the discretion to refer your case to the director of judiciaries. The director of judiciaries, the University Hearing Board, and the University Appeal Board have the authority to take formal action that includes, but is not limited to, suspension or expulsion from the University. However, the director of judiciaries, the University Hearing Board, and the University Appeal Board have no authority to modify a grade given by a faculty member.

If you wish to appeal an action of University Judiciaries or the University Hearing Board, such as suspension or expulsion, you can take the matter to

the University Appeal Board. Details of appeal procedures are included in the Student Handbook.

Further information on academic misconduct is available from the Office of University Judiciaries, telephone 740.593.2629.

Student Records Information

Student Records Policy

Consistent with the Family Educational Rights and Privacy Act of 1974, all of Ohio University's policies and practices governing the collection, maintenance, review, and release of student records will be based upon the principles of confidentiality and your individual right to privacy. The specific policy is detailed in the Appendix of this catalog.

Obtaining Transcripts

Students may order official transcripts in one of the these types:

1. Comprehensive transcript, showing all coursework at Ohio University
2. Undergraduate transcript only
3. Graduate (master's and Ph.D.) transcript only
4. Medical transcript only

There is a \$5.00 per transcript fee for regular processing (generally 2–3 business days). There is a \$10.00 fee for each transcript processed on the same day requested. Transcripts may be ordered online, by mail with a signed letter of request including payment by check or credit card, by signed FAX with payment by credit card, or in person at the Registrar Services Windows. The student is required to provide his/her signature authorizing release of his/her transcript. Online orders may be "automatically authorized" without the student's signature. To find out more about the various processing, application, and delivery options available and to obtain a transcript request form, visit the Registrar Services Windows in Chubb Hall, go to the registrar's Web site at <http://www.ohio.edu/registrar/transcri.cfm>, phone the Registrar's Office, 740.593.4206, or send e-mail to transcripts@ohio.edu.

Replacement of Diploma

To obtain a replacement diploma, provide a notarized affidavit attesting that the original diploma has been lost or destroyed, or verification of a name change, to the registrar's office along with a request for a new diploma. In the case of a name change, you also must return the original diploma. Instructions for verifying a name change

are available from the registrar's office. The fee for diploma replacement is \$15. Visit <http://www.ohio.edu/registrar/grd.cfm> for more details.

The replacement diploma will be the same size as the current diploma, carry current titles and signatures of University officers and the notation "official replacement." Allow four to six weeks for delivery.

Official Notifications for Students

Various state and federal laws require Ohio University to provide information and notice to students on a variety of topics. In addition, Ohio University occasionally develops statements or policies on important matters and distributes them to all students. Below is a listing of official notifications that are currently provided to students.

Notices on these topics are provided via e-mail to all registered students as of the deadline for registration in each academic quarter. E-mail is sent to each student's official University e-mail address (Oak account). These notices are routinely available at the University's Web site at: <http://www.ohio.edu/notifications/>.

Further, it is a student's responsibility to know and follow current requirements and procedures at the departmental, college, and University levels, including those described in the University's Undergraduate Catalog, Graduate

Catalog, Guide for Residential Living, and University Policy and Procedures. All students are subject to the rules of behavior as outlined in the Student Code of Conduct.

- Student Code of Conduct
- University Regulations Regarding Concealed Gun Law
- Consequences for Involvement in Civil Disturbance
- Graduation/Transfer-Out Rates (Student Right to Know Act of 1990)
- Crime Awareness and Campus Security (Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act)
- Drugs and Alcohol (Drug-Free School and Community Act of 1989)
- Convictions for Certain Riot-related and Sexual Assault Offenses (Ohio House Bill 95)
- Campus Disruption (Ohio House Bill 1219)
- Voter Registration (Voter Registration Provision in Higher Education Amendments of 1998)
- Student Privacy (The Family Education Rights and Privacy Act of 1974 or FERPA)
- Copyright Infringement and the Internet
- Emergency Closing of the University
- Statement on Hate-Motivated Behavior
- Statement on Sexual Assault

Questions regarding notifications can be addressed to the Office of the Dean of Students, 202 Baker University Center, 740.593.1800, deanstu@ohio.edu.

Graduation Requirements—University Wide

Catalog of Entry

The catalog in effect for the quarter in which the student first completes coursework at Ohio University becomes the student's University and Major Program Catalog of Entry. This catalog defines the University and college-level academic requirements you must complete and academic policies you must follow for the next five years.

After five years from your initial registration, your college may choose to update either or both catalogs as they pertain to requirements for graduation. Offices responsible for enforcing other University policies, such as graduation with honor, for example, may apply the current University-wide policies to existing students after five years.

Changes in either major or nonmajor requirements that are made necessary by altered or discontinued courses or by requirements imposed by external accrediting or certification agencies will be resolved on an individual basis by the dean of your college. Whenever possible, new requirements will be implemented with a beginning class or upon the expiration of the appropriate time limit.

Transfer students are governed by the same regulations.

Requirements

Ohio University has two sets of graduation requirements: University-wide requirements, which all students must complete, and college-level requirements, which include the requirements for completing your major or minor. University-wide requirements are discussed in this section. Specific college-level and department-level requirements for majors and minors are explained under the appropriate college listing in the Colleges and Curricula section. (Some colleges or majors may require transfer students to take additional courses to meet specific major requirements.)

In general, you must have a minimum of 192 quarter hours of credit for a bachelor's degree, with all other requirements met. (Students who took coursework at Ohio University before fall 1977 can graduate with 180 hours provided they have met all other requirements.) An associate's degree requires a minimum of 96 quarter hours.

No more than eight credit hours earned in developmental courses may be applied toward the total hours required for graduation. Developmental courses include CHEM 115, ENG 150, ENG 150A, MATH 101, MATH 102, PESS 100, and UC 110, 110A, 110B, 112, 112A, 112B, 114.

No more than 20 credit hours earned under the Pass/Fail grading option may be applied toward the total hours required for graduation.

The University recommends a minimum of 24 hours completed in the minor, and has no policy on the minimum requirements for a major. The specific requirements will be determined by your major (and minor, if you have one) department. You also must have a minimum g.p.a. of 2.0 (C) on all hours attempted (including work taken at another institution, if you are a transfer student) and in the major or equivalent as determined by your college. Your college may have additional g.p.a. requirements.

All baccalaureate students (except Honors Tutorial College students) also must complete Ohio University's General Education Requirements. Associate's degree students must complete the freshman English and quantitative skills requirements.

Degree Audit Reporting System (DARS)

A DARS report is issued by your college's student services office/academic advisor each quarter prior to priority registration. This report includes your Registration Access Code (RAC) and your registration access time; you will need this information in order to register for classes. This report helps in determining requirements for graduation by showing progress toward completing those requirements. Reports are also available upon request at your college's student services office or regional campus student services office during other times. If you have questions concerning the DARS report, please contact your college's student services office or your regional campus student services office.

General Education Requirements

Ohio University believes that, as an educated person, you need certain intellectual skills in order to participate effectively in society. These include the following:

The ability to communicate through the written word and the ability to use quantitative or symbolic reasoning.

Broad knowledge of the major fields of learning.

A capacity for evaluation and synthesis.

To help you meet these objectives, Ohio University has instituted a three-tiered General Education Requirement that all baccalaureate degree students (except those in Honors Tutorial College) must fulfill. Tier I course requirements build your quantitative and English composition skills; Tier II course requirements increase your breadth of knowledge; and the Tier III course requirement develops your ability to interrelate, synthesize, and integrate knowledge from different academic disciplines.

Tier I Requirements

Quantitative Skills. You must demonstrate or acquire an acceptable level of quantitative skills to satisfy graduation requirements. A math placement test determines your skill level for placement or exemption unless the Tier I quantitative skills requirement has been satisfied by transfer or advanced placement credit. (Students in some majors are required to take a math placement test regardless of transfer or advanced placement credit.) The choice of the course in which you enroll may depend on your major and should be discussed with your advisor.

Any Ohio University MATH course numbered 109 or above, PHIL 120, PSY 120, and PSY 221 satisfy the Tier I quantitative skills requirement (1M). To enroll in any MATH or other quantitative skills course, you must either place at the specific level required for that course or satisfy the appropriate prerequisites.

Placement levels are:

DV1 and DV2 (Developmental):

Indicate inadequate preparation to enroll in a Tier I-level course. You must complete MATH 101 (and/or 102 on regional campuses) before enrolling in a Level 1 course.

PL1 (Placement Level 1): Indicates preparation for any of the following Tier I-fulfilling courses: MATH 109;

MATH 113; MATH 117, 118 (available only on regional campuses and through correspondence); MATH 120 (early childhood, middle childhood, and intervention specialist education majors only); MATH 147; PHIL 120; PSY 120.

PL2 (Placement Level 2): Indicates preparation for Level 1 courses as well as these additional Tier I-fulfilling courses: MATH 115 (recommended only for students who plan to enroll in MATH 263A or 266A), MATH 150, 163A, 250, and PSY 221.

PL3 (Placement Level 3): Demonstrates competence sufficient to fulfill the Tier I quantitative skills requirement. If your major requires that you enroll in a quantitative skills course, placement at Level 3 indicates preparation for MATH 263A, MATH 266A, and any course in Levels 1 or 2.

English Composition. A first-year composition course and an advanced junior-level composition course are required. Any English 151, 151A, 152, 153, 153A, or 153B will satisfy the University's General Education first-year writing requirement (1E). These courses are alternative, not sequential, courses in writing. You should select your course by looking at the descriptions and choosing the one that appeals to you. (All regional campus students are given a placement test.)

In your junior year, you must take an approved advanced writing course unless you demonstrate advanced writing proficiency by passing the junior-level exemption exam. The following courses fulfill the junior-level composition requirement:

ART 300J	HLTH 370J
CLWR 385J	IART 360J
ENG 305J, 306J,	JOUR 441J
307J, 308J, or 309J	ML 321J or 370J
FILM 344J	POLS 305J
HCGE 345J	PRCM 325J
HIST 301J or 396J	REC 370J

These courses are marked in the Courses of Instruction section of this catalog with the designation (1J) following the title and credit hours.

If you are a transfer student, your requirements are determined by when you enroll and the number and type of credit hours transferred.

Tier II Requirements

Students are required to complete a total of 30 credit hours from an approved list of courses in the following five distribution areas:

Applied Science and Technology (2A)

Cross-Cultural Perspectives (2C)

Humanities and Fine Arts (2H)

Natural Sciences and Mathematics (2N)

Social Sciences (2S)

You are required to take at least four credit hours in four of the five areas and may satisfy no more than two of the required four areas with courses from the same department. You may satisfy no more than 12 of the 30 hours with courses from the same department.

You may apply one approved Tier II course in your major department or area of concentration (for B.S.S. students) toward partial fulfillment of the Tier II requirement.

Approved courses are marked in the Courses of Instruction section with (2A), (2C), (2H), (2N), or (2S) following the title and credit hours. The following courses fulfill the Tier II breadth of knowledge requirement:

Applied Science and Technology (2A)

Biological Sciences 205, 220, 221, 222, 235

Chemical Engineering 331

Chemistry and Biochemistry 101

Communication Systems
Management 101, 201

Computer Science 230
Electrical Engineering 101

Engineering and Technology 280, 320, 350, 470

Environmental Health 260

Environmental and Plant Biology 103, 160

Geography 201, 260

Geological Sciences 170, 215, 231

Health Sciences 202

Hearing, Speech, and Language Sciences 108

Human and Consumer Sciences—Food and Nutrition 128

Industrial Technology 110

Mechanical Engineering 100

Cross-Cultural Perspectives (2C)

Anthropology 101, 202

Art History 214, 330, 331

Classics and World Religions 311, 321, 331

Dance 351, 352, 353

English 331, 332, 333

Foreign Languages and Literatures
Chinese 211, 212, 213

French 211, 212, 213

German 211, 212, 213

Indonesian/Malaysian 211, 212, 213

Italian 211, 212, 213

Japanese 211, 212, 213, 252x, 253x

Japanese Culture 250

Russian 211, 212, 213

Spanish 211, 212, 213, 349

Swahili 211, 212, 213

Geography 131

History 132, 133, 246, 323ABC, 335AB, 341ABC, 345ABC

International Studies 103, 113, 118, 121

Political Science 340

Humanities and Fine Arts (2H)

African American Studies 110, 150, 210, 211, 250, 350

Art 110

Art History 211, 212, 213

Classics and World Religions 181, 301, 302

Communication Studies 101

Dance 170, 171, 271, 471, 472, 473

English 200, 201, 202, 203, 204, 205, 206

Film 201, 202, 203

Foreign Languages and Literatures
Classics in English 127, 231, 234, 235, 236, 237, 252, 253, 254, 255
Greek 211, 212, 213

International Literature: *Modern Languages* 335, 336, 337, 338AB
Latin 211, 212, 213

History 121, 122, 123

Humanities 107, 108, 109, 117

Interdisciplinary Arts 117, 118, 211, 212, 213, 270, 271, 272

Music 100, 120, 125

Philosophy 101, 130, 216, 232, 240, 260, 310, 311, 312, 314

Theater 170, 270, 271, 272

Women's Studies 100

Natural Sciences and Mathematics (2N)

Anthropology 201

Astronomy 100, 100D

Biological Sciences 100, 103, 170, 171, 172, 173, 202, 225, 275; and 130, 131 (Chillicothe, Lancaster, and Zanesville campuses only); and 201 (Chillicothe and Zanesville campuses only)

Biology 101

Chemistry and Biochemistry 121, 122, 123, 151, 152, 153

Environmental and Plant Biology 100, 100L, 102, 109, 114, 115, 209

Geography 101, 202

Geological Sciences 101, 120, 130, 211, 221

Mathematics 163AB, 263ABC, 266A8

Physical Science 100, 100D, 101, 101L, 105, 105L, 140, 200, 205; and 121/121L, 122/122L, 123/123L (regional campuses only)

Physics 201, 202, 203, 251, 252, 253, 262

Social Sciences (25)

African American Studies 101, 202
 Classical Archaeology 211, 212, 213
 Communication Studies 351, 352, 353
 Economics 103, 104, 240
 Geography 121, 132
 History 101, 102, 103, 200, 201, 315A
 Human and Consumer Sciences–Child and Family Studies 160
 Human and Consumer Sciences–Retail Merchandising 250
 Journalism 105
 Linguistics 270
 Management 202
 Political Science 101, 102, 103, 150, 210, 230, 250, 270, 331
 Psychology 101
 Social Work 101
 Sociology 101, 201
 Telecommunications 105

Tier III Requirement

Students are required to take one Tier III interdisciplinary course after attaining senior rank (135 hours). A complete list of Tier III courses is available under the heading Tier III in the Courses of Instruction section. Students may fulfill this requirement by taking a Tier III equivalent course in their major; they should see their major advisor for information as to whether their discipline offers such a course.

Residence Requirements for Graduation

Like most universities, Ohio University requires that you be "in residence" for a certain number of credit hours in order to graduate. Some colleges have additional residence requirements, so check with your advisor or dean's office to make certain that all requirements are being met.

Residence credit is defined as any credit earned by regular enrollment at Ohio University on the Athens campus or any regional campus or by Ohio University Education Abroad, any approved student teaching, by the Independent and Distance Learning Programs in the Division of Lifelong Learning, or any combination of these options.

Bachelor's Degree

You must earn a minimum of 48 credit hours while enrolled at Ohio University and you must earn a minimum of 50 percent of coursework taken to fulfill your major concentration in residence

with resident credit as defined above. A college may require more than 50 percent of Ohio University credit to fulfill a major concentration or have other additional residence requirements for a given program.

If you begin graduate study at Ohio University before completing all requirements for a bachelor's degree, your residence requirement will be reduced by as many hours as credit hours of graduate work completed. The number of hours subtracted also will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence credits used for meeting requirements for one or more bachelor's degrees may not also be used for meeting the residence requirements for the graduate degree.

The residence requirements apply even if you have been approved for graduation in absentia and are completing your last year in an accredited institution, except that the regulations apply to residence before you leave the University. (See the In Absentia section.)

Associate's Degree

You must earn a minimum of 30 credit hours while enrolled at Ohio University and you must earn a minimum of 50 percent of coursework taken to fulfill your major concentration in residence with resident credit as defined above. A college may require more than 50 percent of Ohio University credit to fulfill a major concentration or have other additional residence requirements for a given program.

In Absentia

To be considered for *in absentia* status, you must obtain permission from the student services office of your college. If you have been approved for the senior-*in absentia* privilege, you must complete a full year's work in an Ohio University-approved professional school and be eligible for advancement without condition to the second year to obtain your bachelor's degree *in absentia*. *In absentia* programs involve preplanned curricula and cannot be arranged on an ad hoc basis. The *in absentia* privilege does not apply to graduate degree programs.

The official transcript from the school you attend must be submitted to the Office of Admissions, Chubb Hall 120, Ohio University, before the degree conferral date.

Second Bachelor's Degree

If you plan to earn two bachelor's degrees, you may meet the requirements either simultaneously or successively:

- 1 To complete requirements for two degrees conferred on the same date, you must meet the requirements for both degrees and must have completed a total of 13 quarters of college work or its equivalent (208 hours), with a minimum of five quarters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, you must declare a major program in both colleges and meet the residence requirement the quarter in which the degrees are to be conferred.
- 2 If you have met the requirements for two degrees as stated above and want to have the degrees conferred in successive quarters, you may do so without further credit or residence. For example, one degree may be conferred at the end of one quarter and application made for the second degree in a subsequent quarter.
- 3 If you want to take a second bachelor's degree after receiving the first, you must complete the requirements for the second degree and meet the residence requirement in the college offering the second degree. (See individual college requirements in the Colleges and Curricula section.)

Second Associate's Degrees

You cannot earn the same associate's degree twice. Furthermore, you are not permitted to earn both the A.A. and A.S. degrees. If you have already earned the A.I.S. degree, you are not permitted to earn either the A.A. or A.S. degree. Although it is possible to complete an A.A.B. or A.A.S. degree with a double major, you can earn the degree only once.

Graduation Procedures

Application

Candidates for graduation must make application and pay the application fee no later than the deadline listed in the academic calendar for the quarter in which graduation is planned. You may apply online at <http://www.ohio.edu/registrar/> or receive assistance at the Registrar Services Windows, First Floor, Chubb Hall or at your regional campus student services office. Questions about applying for graduation can be directed to graduation@ohio.edu. This application initiates the process that informs

your college to check for fulfillment of degree requirements. The process culminates with the entry of the college, major, other concentrations (such as minor, dual certification in education, etc.), degree, and date of granting the degree on your permanent academic record. At the end of this process, your graduation g.p.a., class rank, and eligibility for honors are determined. They then cannot be changed by completing additional coursework or retaking classes, although taking additional classes will affect your accumulative grade point average.

The application fee for all degrees is \$50. If you fail to meet the requirements for graduation, you may reapply for the quarter in which you plan to complete the requirements. The fee for reapplication is \$5.

Graduation with Honor

The g.p.a. requirements for graduation with honor are: *cum laude* (with honor), 3.5 to 3.749; *magna cum laude* (with high honor), 3.75 to 3.899; and *summa cum laude* (with highest honor), 3.9 to 4.0. The Latin honors notation will appear on your diploma and in the commencement program. Note: The commencement program honor notation for spring quarter graduates is calculated based on your most recent accumulative g.p.a. prior to spring quarter. After spring grades are calculated the final honor is calculated and will appear on your transcript and diploma.

To be eligible for graduation with honor, you must complete a minimum of 48 hours of coursework with letter grades that affect your g.p.a. in residence at Ohio University. Successful completion of a special honors program of study is noted in the Commencement program and on your diploma. Graduation with honor does not apply to associate's or graduate degrees.

Commencement Ceremony

If you are a candidate for spring quarter graduation, or if you have earned your degree during the preceding summer, fall, or winter quarters, you are eligible to attend Commencement, held at the end of spring quarter.

Details concerning Commencement will be sent to you after you have officially applied for graduation, provided you indicate your intention to attend the commencement ceremony at the time you submit your graduation application.

Commencement information is available online at <http://www.ohio.edu/commencement/>. Direct any questions concerning Commencement to the Office of University Events, 740.593.1762.

University-Wide Academic Opportunities

Community Service Programs

Community Service Programs give you the chance to make a difference in the world around you—and, in the process, to make a difference in yourself. The Center for Community Service, located in Baker Center 033, can help you find the right community service opportunity. Programs include volunteer referral, national service, Community Service Federal Work-Study, service-learning, and student corps. Some offer career-related experience and academic credit.

Departmental Honors Programs

Outstanding undergraduate students at Ohio University who are not students in the Honors Tutorial College may choose to earn departmental honors in their major. A thesis or project is required and, depending on the major, may be either an expository or creative piece of original work, the result of supervised research, or a collection of artistic endeavors. A departmental supervisor helps in the decision of an appropriate project and guides you toward completion of the thesis or project. Departments determine eligibility of students, and you should talk with the Honors Coordinator in the department about your interest in this program. To graduate with departmental honors, you must have satisfied the criteria required by your major department. You are advised to start planning this program as soon as possible.

Office of Education Abroad

Ohio University is committed to encouraging and supporting undergraduate participation in international education programs. A global education helps to prepare the undergraduate student of today to be an effective and competent member of the global workforce of tomorrow. The Office of Education Abroad (OEA) provides abundant oppor-

tunities for students to engage themselves in worldwide academic experiences by living and learning abroad.

Ohio University offers undergraduate students more than 75 institutionally sponsored programs, with study sites on five continents. Moreover, the OEA helps to ensure the health, safety, and security of its student participants abroad. By providing administrative services and support to Ohio University programs overseas, the OEA coordinates efforts to ensure a quality education in a variety of international settings. The OEA, in addition, maintains a resource library of materials and references regarding education abroad opportunities. Through extensive advising, workshops, special sessions, and pre-departure orientations, the OEA helps to prepare students to undertake an education abroad experience.

Education abroad opportunities for undergraduates include study abroad—the traditional academic route to the overseas experience—which forms the core of education abroad programs. Such programs are generally faculty-led and involve a group of Ohio University students who take Ohio University credit courses abroad. Students receive an orientation on-campus prior to departure and usually travel together to their destination with a faculty program director. About 80 percent of our program participants are enrolled in these programs. In an effort to promote study abroad to students in every major and every academic rank, freshmen to seniors, Ohio University established its first International Study Abroad Center, the Ohio-Leipzig European Center, in cooperation with the University of Leipzig, Germany, in 2000. The second Study Abroad Center, the Ohio-Shandong Center in East Asia, began operation in fall quarter 2004, in cooperation with Shandong University in Jihan, China.

Another education abroad option is exchange student programs, based on reciprocal agreements with host institutions abroad. An Ohio University student trades places with a student from the foreign university, generally for a semester or academic year. Exchange student status is awarded to students on a competitive selection basis.

A third education abroad option is international internships, which provide students with practical project-based experience through on-the-job training in their field, while simultaneously giving students the opportunity to experience a different culture and work environment.

Still more opportunities for under-graduate research abroad are being developed, particularly in the sciences. In such programs, students assist faculty members conducting research in a particular discipline through field study and data collection.

Additionally, the service-learning program emphasizes involvement with and/or service to citizens of the host country, an experience often similar to the Peace Corps. Certain types of student teaching, social work, medical missions, and development-related activities are characteristic of this form of education abroad.

Finally, work and volunteer options, often offered in the summer, are becoming increasingly popular among undergraduate students.

For more information about these and other opportunities, visit our Web site at <http://www.ohio.edu/studyabroad/>, e-mail us at education.abroad@ohio.edu, or come to the Office of Education Abroad in Gordy Hall 107 (tel: 740.593.4583) during our walk-in advising hours, Monday–Friday, 1–4 p.m.

Global Leadership Center

The Global Leadership Center (GLC) is an innovative program that prepares students for leadership opportunities in a rapidly changing world. Open to all majors, the GLC brings together the resources of the colleges of Communication, Arts and Sciences, and Business in an interdisciplinary 30 quarter-hour residential program on global issues, with a strong emphasis on real-world projects and problem-solving skills.

GLC courses are not traditional classes with lectures, tests, and papers. Instead, students work in project teams on real-world problems and issues. Each GLC student completes at least two international and cross-cultural projects.

For additional information, see the complete program description in the College of Communication section or visit the GLC Web site: <http://www.ohio.edu/glc/>.

Learning Communities

First-Year Learning Communities. Learning communities allow first-year students the opportunity to have the benefits of a small college atmosphere while experiencing Ohio University's large campus culture. Participation in

a learning community guarantees students 2–4 common first-year courses for fall quarter.

The purpose of the Learning Communities is to help first-year students gain a deeper understanding of learning at the college level, assist in the integration of course material, increase interaction and communication between students and faculty, increase involvement and engagement in the campus community, ease transition, and increase retention, resulting in a holistic college learning experience.

Learning Communities are designed around clusters of linked first-year courses tailored to a specific topic or major. Groups of up to 25 students are co-enrolled into 2–4 courses, one of which is typically a first-year seminar course that only the participants take, and it is the hub of the community. In some academically-based communities, this course is an introduction to a discipline.

Many Learning Communities are also residentially-based (RLCs), with students living in close proximity to one another on campus. Most include a Peer Mentor who assists students in adjusting to college life as well as guides them through the exploration of Ohio University opportunities and resources. Out-of-class activities and study sessions are integrated in the LCs.

Opportunities to be involved in a Learning Community are available on a limited basis. Participating colleges will send information regarding LCs directly to the students admitted to the college. Regardless of your major, there is a LC designed to meet your interests. An information session and registration for many LCs will take place during Summer Precollege.

For more information please visit our Web site at <http://www.ohio.edu/learningcommunities/> or contact:

Director of Learning Community Programs
University College
Ohio University, Chubb Hall 140
740.593.1935
E-mail: learning.communities@ohio.edu

Linked Courses

Linked courses provide opportunities for groups of twenty students to take two courses together: their first-year writing course (ENG 151 or 152 or 153) and a general education (Tier II) course, such as History 121 or Anthropology 101, giving students the chance to develop

friendships and study groups through shared experiences in the classroom.

Linked courses are sponsored through Ohio University's Center for Writing Excellence & Writing Across the Curriculum Program and the Department of English. Visit the Linked Course Web site at http://www.ohio.edu/writing/paired_linked_courses.htm or ask your Precollege advisor more about this option if you are interested.

Office of Nationally Competitive Awards

The Office of Nationally Competitive Awards (ONCA) assists Ohio University students with virtually all facets of applying for some of the most prestigious awards available. This includes, but is not limited to, such impressive and competitive awards as the Rhodes, Marshall, Truman, Udall, and Goldwater Scholarships.

Services offered include providing specific information about scholarships and awards, mentoring and counseling students about their particular situations and candidacies, assisting with the application processes, and organizing seminars and supportive programs for students. Most national awards are merit based and extremely competitive. To be considered viable candidates, students should have at least a 3.7 g.p.a. and be actively involved in both their studies and extracurricular activities.

ONCA is located at 35 Park Place. Call 597.1632 for more information or visit their Web site: <http://www.ohio.edu/onca/>.

Provost's Undergraduate Research Fund

The Provost's Undergraduate Research Fund provides annual grants of up to \$1,500 each to support the research projects, creative projects, and scholarly work of undergraduate students. To be eligible, students must be enrolled full time on the Athens campus and must be endorsed by a tenure-track faculty member. Grants may be used for research related materials, supplies, and travel. The fund is administered through the office of the assistant dean in the Honors Tutorial College. Guidelines and an application form are available on the Web: <http://www.ohio.edu/honors/>.

Services for Students

Academic Advancement Center

The Academic Advancement Center (AAC) helps you develop the skills and attitudes necessary for your academic success. The center, a department of University College serving undergraduates from across campus, provides a variety of support services.

Courses. You may enroll in credit courses taught by the AAC staff. UC 106, Academic Computing Skills, is a one-credit course designed to enhance computer skills required for many classes, such as the Microsoft Office suite of programs, research on the Web, creating a Web page, creating and editing multimedia files including video. UC 110, Learning Strategies, is a three-credit course designed to teach effective study strategies. Techniques that increase effectiveness in managing time, taking notes, reading and comprehending text material, and preparing for exams are emphasized. UC 112, College Reading Skills, is a two-credit course designed to improve your reading comprehension of college-level material. Techniques, such as summarizing main ideas, organizing textbook content, understanding inference and point of view, adjusting reading rate, expanding vocabulary, and developing critical thinking skills are emphasized. UC 112B, a one-credit speed-reading and vocabulary course, is available for good readers seeking even higher proficiency in reading. The class is five weeks in length. Individual reading and study skills assistance is provided free on a non-credit appointment basis to any student requesting assistance. (See Courses of Instruction section for descriptions of additional UC Courses.)

Tutoring. Individual tutoring is available for skill development and for mastery of course content. Our staff will work with you on math, reading and study skills, free of charge. You also may request a referral to a private content tutor, whom you will be expected to pay directly. In most areas, tutors are readily available; in all cases, we will do our best to connect you with a qualified tutor. Requests for tutors may be made at any time online through the AAC Web site at <http://www.ohio.edu/aac/tutoring/>.

Supplemental Instruction (SI). SI provides free study sessions several times a week for selected courses. The sessions are conducted by undergraduates who attend the class and work with the professor to help students share and master information. The sessions are open to anyone enrolled in the selected courses. The courses selected for SI are usually courses with high enrollments and high rates of poor performance or failure. If a class is selected for SI, the Leader is introduced during class and will announce the SI session schedule. In addition to listening for announcements in the class, you may access the SI sessions schedule online at <http://www.ohio.edu/aac/supins/>.

Computer Skills. The AAC Computer Lab, located on the first floor of Alden Library, is a modern multi-media facility equipped with both Macintosh and Windows computers, scanners, a digital camera, zip drives, CD-R/RW and DVD burners, and various supporting software from Adobe, Macromedia, and Microsoft. Skilled computer assistants are available for one-on-one help with the lab's various computer software and hardware. For more information regarding hardware, software, and open hours, visit the AAC lab Web site at <http://www.ohio.edu/aac/lab/>.

College Adjustment Program (CAP). CAP, which operates under a U.S. Department of Education TRIO grant, helps students attain academic success and graduate from college. CAP provides a broad range of services for students who meet federal eligibility requirements. Read more about CAP, including eligibility requirements, in the University College section.

You may also contact the Academic Advancement Center to learn more about its programs and services. Please call 740.593.2644, fax 740.593.0338, visit our Web site <http://www.ohio.edu/aac/>, e-mail to aac@ohio.edu or visit us on the first floor of Alden Library.

Academic Advising

Academic advising is a central element of your undergraduate educational experience at Ohio University. Each college and department has faculty and/or professional advisors available to provide information about academic options and University resources to promote your learning and development. You are assigned an advisor within your college or department who can help you create an educational plan consistent with your academic, career, and

personal goals. Your advisor will also assist in the preparation of an appropriate schedule of classes each quarter. However, it is your responsibility to be prepared for advising appointments and to know and follow current requirements. While meeting with your advisor before preregistering each quarter is important, it is strongly recommended that you maintain regular contact with your advisor. Questions about academic advising or how to contact your advisor should be directed to your college office. You can find preregistration and advising information at <http://www.ohio.edu/registrar/> by clicking on Preregistration and Advising Info under On-line Services: Students.

Campus Life

Campus Life is your connection to campus and community involvement—the place where you can discover everything you want to know about student organizations; Greek life; Gay, Lesbian, Bisexual, and Transgender programs; community service and involvement opportunities; family and special event weekend information; and leadership programming. If you want to get involved on campus, stop by our office in Baker University Center 204, call 740.593.4025, or visit our Web site at <http://www.ohio.edu/campuslife/>.

Community Service

The Center for Community Service works with campus and community partners to promote community service collaborations that benefit the community, foster mutual learning, and prepare students for responsible citizenship. The center is a connecting point for students, faculty, staff, community members, and community-based organizations interested in volunteer and community service.

Gay, Lesbian, Bisexual, and Transgender Programs

The Lesbian, Gay, Bisexual, Transgender Programs Center serves people of all sexual orientations and gender identities as individuals and as groups. We are committed to fostering human development and cultivating an inclusive, open, and supportive community through education, support, collaboration, and advocacy at Ohio University and beyond. The center offers a variety of educational and cultural programs and events throughout the academic year.

Greek Life

Sororities and fraternities have been a part of campus life since 1841. Today, the Greek community consists of 31 inter/national sororities and fraterni-

ties, with approximately 11 percent of the student body participating as members. Involvement opportunities include a wide range of social, educational, and philanthropic activities, as well as leadership opportunities within the Interfraternity Council, the National Pan-Hellenic Council, the Women's Panhellenic Association, and two Latino/a-based chapters.

Leadership Development

Campus Life prepares students for socially responsible leadership in their communities. There are a variety of programs offered to help you learn about leadership and your potential. A four-credit class is offered through the College of Education (EDCP 400). The SLA (Student Leadership Advisors) team offers leadership assistance to all students and student organizations. The LeaderShape Institute® focuses on leading with integrity.

Student Organizations

Ohio University has more than 350 student organizations to explore. Becoming involved can help you perform better in other areas of your life and feel more a part of the University. You'll learn about community and about effective membership and leadership.

Honor Societies

These national organizations confer membership in recognition of high scholastic attainment and the fulfillment of other requirements. Honor societies encourage the development of a well-rounded personality and leadership and service qualities, in addition to academic achievement.

Alpha Lambda Delta, *Freshman Honor Society*

Alpha Phi Sigma, *Criminal Justice*

Alpha Pi Mu, *Industrial Engineering*

Arnold Air Society, *Aerospace Studies*

Beta Alpha Psi, *Accounting*

Civil Engineering Honor Society

Delta Phi Alpha, *German*

Delta Sigma Pi, *Profession Business Fraternity*

Eta Sigma Gamma, *Health Science*

Gamma Pi Delta, *Nontraditional Students*

Gamma Theta Upsilon, *Geography*

Golden Key, *Scholarship*

Honors College Society

Kappa Delta Pi, *Education*

Lambda Omega, *Nursing*

Lambda Pi Eta, *Communication*

Mortar Board, *Scholarship, Activities*

National Residence Hall Honorary

Omega Chi Epsilon, *Chemical Engineering*

Omicron Delta Kappa, *National Honor Society*

Order of Omega, *Greek Leadership*

Phi Alpha Honor Society, *Social Work*

Phi Gamma Nu, *Business*

Phi Sigma Iota, *French*

Pi Sigma Alpha, *Political Science*

Pi Tau Sigma, *Mechanical Engineering*

Psi Chi, *Psychology*

Rho Lambda, *National Panhellenic Honorary*

Sigma Alpha Iota, *Music*

Sigma Delta Pi, *Spanish*

Sigma Sigma Phi, *Osteopathic Medicine*

Sigma Tau Delta, *English*

Society of Professional Journalists

Tau Beta Pi, *Engineering*

Tau Beta Sigma, *Band*

Career Services

The Office of Career Services provides assistance with making career decisions, exploring major and career options, attending career fairs, and conducting effective job searches. Services, which are free to all students and alumni, include:

- 1 individual career advising on issues such as major, career options, résumé and cover letter writing/critiques, attending graduate school, and career search strategies.
- 2 Web-based programs such as Focus and OCIS that identify interests, abilities, and values. CareerSearch is a net-based employer research system containing a database of more than 3.2 million organizations. The Alumni Mentors program, in collaboration with the Office of Alumni Relations, allows students and alumni to contact alumni who have volunteered to mentor others. VAULT, the Online Career Library, includes information on various careers, employers, and other relevant topics.
- 3 seminars on résumé preparation, interviewing techniques, career planning, and other career-related topics.
- 4 the Mock Interview Program, which allows you to practice and improve your interview performance.
- 5 career fairs that bring a variety of employers to campus to discuss career opportunities. Career fairs, open to all students and alumni, are held in October and February. The Teacher Recruitment Consortium is held Spring Quarter.
- 6 the Career Resource Center which contains a wealth of information: career guides, employer directories, graduate school guides and admissions test bulletins, internships and summer job listings, employer literature, and professional job vacancies.
- 7 the Career Services Web site not only provides you with general career

information but can connect you with a range of other resources on the Internet. It is linked to the Ohio University home page under "Employment" or can be reached at <http://www.ohio.edu/careers/>.

Services for Graduating Students and Alumni

The Office of Career Services also offers the Bobcat Online Job Search Program for graduating students and alumni. This program consists of three services: computerized résumé referral, online job postings, and on-campus interviewing. To be eligible for this program, you must register with the office by attending a registration orientation session that explains services and procedures, paying a nominal fee, and completing required materials.

You are encouraged to work with Career Services throughout your University experience for assistance in all career-related matters. For more information, call 740.593.2909.

Computer and Network Services

Ohio University Computer and Network Services (CNS) provides telephone, data and video communications, comprehensive desktop computer technical support, ID card services, and audio-visual equipment maintenance for the University community.

Desktop computer technical support can be obtained by calling the Support Center at 593.1222, by sending e-mail to helpdesk@ohio.edu, or by visiting the IT Web site at <http://technology.ohio.edu/>. Networking supplies such as Ethernet cards, cables, and mini-hubs are available at the CNS office, HDL Center 301.

Computer Services

Computer Services provides state-of-the-art computing resources and facilities to Ohio University students. The main offices for Computer Services are in the Computer Services Center.

Computer Labs

Lab computers can be used to access the Internet and various software programs. Lab locations include Computer Services Center, Boyd Hall, and Brown Hall. In addition, a combined Library/Computer Services' "Learning Commons" computer lab is available on the second floor of Alden Library. Many departments also operate computing labs for their own students. Approximately 50 labs are available on campus—some

labs are open to all majors, some labs are restricted to people within a certain major. All labs contain laser printers for high-quality output. Visit <http://www.ohio.edu/technology/> for specific software titles, lab hours, and general information.

Educational Testing Center

The Educational Testing Center is a computer based testing facility that offers numerous testing sessions per week. Available tests include the GRE, Praxis I, and TOEFL. Visit <http://www.ohio.edu/etc/> for a complete listing of tests, hours of operation, and other important information.

Software

Ohio University has several software site licenses that provide software to students. Visit <http://www.ohio.edu/software/> for more information, including eligibility, cost, and how to obtain the software.

Counseling and Psychological Services

Counseling and psychological services are available on an individual and group basis for personal, educational, and career concerns. All consultations are confidential and are provided by a staff of counselors, psychologists, and trainees.

If you have personal problems of any kind (emotional, social, marital, substance abuse, stress, etc.), you can receive help understanding and resolving those difficulties.

If you feel your concerns are urgent, you can request an emergency appointment. If you are worried about a friend, you can call or drop in and ask for a consultation appointment.

If you are having academic difficulties, you can receive help in understanding and resolving your concerns so that you may improve your performance.

If you are uncertain about your educational or career objectives, you can obtain assistance in appraising your abilities, interests, performance, etc., so that you may identify more appropriate and satisfying directions.

Psychiatric consultations for medication are available. You can make an appointment to discuss your personal adjustment, educational, or career, or concerns by stopping by our offices on the third floor of Hudson Health Center (use the side entrance next to Voigt Hall and see the receptionist), or by calling 593.1616 between 8 a.m. and noon, and between 1 p.m. and 5 p.m. Monday through Friday.

Disability Services

The Office for Institutional Equity is committed to assuring equality of opportunity and full participation at Ohio University for persons with disabilities. The Americans with Disabilities Act (ADA) defines disability as a physical or mental impairment that substantially limits one or more major life activities such as walking, seeing, hearing, performing manual tasks, or learning; a record of such impairment; or being regarded as having such an impairment. Persons requiring reasonable accommodations for disabilities must provide documentation and register with the Office for Institutional Equity. The office provides guidelines for required documentation of a disability. All information concerning disabilities is confidential.

The Office for Institutional Equity has the primary responsibility for identifying and coordinating services to meet the particular needs of the person with a disability. General services include priority scheduling, information to faculty regarding academic accommodations, transportation assistance, tutoring and study skills assistance through the Academic Advancement Center, learning and study services including liaison with Recording for the Blind and Dyslexic, library assistance, and work-place and housing accommodations.

All students, regardless of disability, are subject to established academic requirements. Ohio University recognizes the need for reasonable accommodations to promote program accessibility. If you have a disability, contact the Office for Institutional Equity located in Crewson House to discuss your individual needs. Visit our Web site at <http://www.ohio.edu/equity/disabilityservices/>

Environmental Health and Safety

Located in Hudson Health Center, Environmental Health and Safety provides environmental and occupational health, safety, and sanitation services to the campus community. We forge the vital link between a safe and healthy campus environment and the University mission through competent and dependable services. Programs are administered to ensure the health and safety of faculty, staff, students, and visitors. The department works to ensure compliance with fire authority, health department, OSHA, CDC, EPA, NRC, DOT, and other regulatory agency requirements.

A multidisciplinary professional staff coordinates programs in environmental sanitation, food sanitation, pest control, radiation safety, occupational safety, ergonomics, indoor air quality, infectious waste, asbestos and lead abatement, emergency program management, environmental management, industrial hygiene, fire safety, biosafety, and hazardous materials management. Training programs are also conducted. For more information about the Department of EHS, visit our Web site: <http://www.ohio.edu/ehs/>.

Health Service

The Student Health Service (SHS) is located in Hudson Health Center on the North Green (building 35 on the campus map). Medical care is provided 8 a.m. to 4:30 p.m. on all weekdays except Thursday, when the hours are 9 a.m. to 4:30 p.m. during fall, winter and spring quarters. You do not have to purchase the University insurance plan to receive services through SHS. All enrolled students have access to the SHS outpatient clinic.

Serving you are a pharmacy, a medical laboratory, x-ray facilities, immunization services, and a physical therapy department staffed by physicians, registered nurses, nurse practitioners, physical therapists, pharmacists, and registered laboratory and x-ray technicians.

International students must have a tuberculosis skin test upon first arriving in Athens or returning to the campus after an absence of two or more years. This test is given free of charge. See the Schedule of Classes for details.

Visit the SHS Web site at http://www.ohio.edu/hudson/shs_page.html.

Hearing, Speech and Language Clinic

The Ohio University Hearing, Speech and Language Clinic offers diagnostic and treatment services to University students, faculty, staff, and members of the community. Services are available to all age groups from infants to adults. A fee list is available upon request.

Speech and language services cover such areas as articulation, language, stuttering, and voice. Audiology services include the identification and management of problems in hearing and balance, including the selection and use of hearing aids, auditory process-

ing, and developmental communication problems posed by hearing loss.

The clinic operates five days per week and is staffed by graduate students majoring in Hearing, Speech and Language Sciences under the continuous supervision of fully licensed and credentialed faculty and staff.

For assistance with a hearing, speech or language question, inquire at the clinic office in Grover Center between 9 a.m. and 5 p.m., Monday through Friday, or call 593.1404. Clinic services are available throughout the year.

Housing

Housing administers all room and board charges and oversees the apartment complex for graduate students, married students, and students with families.

Housing Regulation

If you have fewer than 90 undergraduate earned credit hours, or have lived on campus less than two academic years (six quarters) you must reside in University-owned housing and participate in the associated mandatory meal plan. Before the beginning of each fall quarter, your hours and time in residence on campus will be counted. If you do not have 90 undergraduate credit hours or two academic years in residence before the beginning of fall quarter, **you will be required to live in University-owned housing and have a meal plan for the following academic year.**

Credit hours earned by students while attending high school (via advanced placement, Senate Bill 140, etc.) will not be considered toward exemption eligibility from the housing requirement. The contract for housing and dining services is binding for the entire academic year. If you don't comply with this regulation, you may be denied registration.

Transfer students should contact the Office of Admissions to determine their earned-hour status. Relocating and re-enrolling students should contact the registrar's office.

Housing Regulation Exemptions

If you meet any of the following conditions, you may request (in writing) that you be exempt from the housing regulation. **Falsification of any material submitted in support of an exemption request is a violation of the Student Code of Conduct and may result in a referral to University Judiciaries.**

- 1 You are enrolled as a part-time (11 credit hours or less during the aca-

demical year, 5 hours or less during the summer sessions) student as defined in this catalog.

- 2 You are a married student living with your spouse or a single parent living with your children within commuting distance of the University.
- 3 You live with parents or guardians whose permanent residence is within commuting distance of the University.
- 4 You have 45 or more earned undergraduate credit hours or one academic year (three quarters) in residence and are living in a recognized fraternity or sorority house. (This exemption is not available to continuing students once the academic year begins.)
- 5 You are a veteran who has 18 or more months of active military service.

Special Students

All special students (students taking classes during the summer, Ohio Program of Intensive English students, etc.) must comply with the housing regulation. If you are not sure of your status, contact Housing.

Note: Continuing students with 90 or more hours of undergraduate credit earned or two years in residence at the beginning of the fall quarter and new students with 90 or more credit hours and two years in residence may reside in off-campus housing. The University bears no responsibility for the living conditions or problems arising therein to either the home-owner or the student resident.

Institutional Equity

It is the policy of Ohio University that there shall be no discrimination against any individual in educational or employment opportunities because of race, color, religion, age, national origin, sexual orientation, gender, veteran status, or disability. Also, there shall be no discrimination because of age, except in compliance with requirements of retirement plans or state and federal laws and guidelines.

The Office for Institutional Equity monitors hiring, promotion, and transfer of faculty and administrators; develops and implements programs and activities that give recognition to the value of diversity; coordinates services for disabled students and employees; advises students and employees about University policies and procedures regarding nondiscrimination; investigates complaints of discrimination; and seeks to foster a climate that encourages the full realization of the University's mission to promote a just and socially responsive community. If you have a concern about pos-

sible discrimination or harassment, you are encouraged to contact the Office for Institutional Equity. In coordinating services for people with disabilities, the Office for Institutional Equity can advise you about specific resources available at Ohio University. (See the Disability Services section for details.)

Harassment Policy. Ohio University recognizes the human dignity of each member of the Ohio University community and believes each member has a responsibility to promote respect and dignity for others. The University strives to foster an academic, work and living environment that is free from harassment. The University's goal is to provide an environment where students, faculty, and staff can thrive, and that is welcoming, and free of fear.

Ohio University will make its educational programs and employment opportunities equitably available to students and employees without discrimination on the basis of race, religion, color, sex, sexual orientation, national origin, ancestry, age, gender, gender identity or expression, mental or physical disability, or veteran status. Harassment is a form of discrimination and, therefore, harassment directed toward an individual or group, or experienced by an individual or group, violates this policy. An individual or group of individuals found to have violated this policy will be subject to disciplinary or remedial action, up to and including, termination of employment or expulsion from the University.

Federal and state law and regulations place certain requirements on the University regarding the reporting of sexual harassment. Any member of the University community who receives a complaint of sexual harassment from a student or other member of the University community is directed and required to report the behavior to the Office for Institutional Equity, the Office of Legal Affairs, or University Human Resources.

Any member of the University Community who has a question about his or her responsibilities under this policy should call the Office for Institutional Equity or the Office of Legal Affairs.

All complaints or reports should be made to the Office for Institutional Equity and directed to the Executive Assistant to the President, or Office for Institutional Equity. Any complaints or reports submitted to the Office of Legal Affairs or to University Human Resources will be forwarded by them to the Office for Institutional Equity.

Office for Institutional Equity,
101 Crewson House, Ohio University,
Athens, Ohio 45701
Phone: 740.593.2620
FAX: 740.593.0790
E-mail: equity@ohio.edu
<http://www.ohio.edu/equity/>

The full documentation of this policy is available online at: <http://www.ohio.edu/hr/policies/index.cfm>

Insurance, Medical

All domestic students registered for seven or more credit hours and international students registered for one or more credit hours are required to maintain a health insurance plan. To assist with this requirement, the University offers a major medical insurance plan designed to supplement the care provided by the Student Health Service.

Subject to the policy's benefits and exclusions, it provides protection against major medical and surgical expenses for the insured student at home, at school, or while traveling anywhere in the world. In addition to accident and sickness benefits, it includes repatriation, medical evacuation, and accidental death benefits.

All students are billed automatically for this plan. Domestic students may waive the insurance if they have another policy in force at the time they are enrolled. Only the International Student Services Office can approve an insurance waiver for an international student. Domestic students taking fewer than 7 hours, or any student participating in an internship program, co-op program, or completing a master's thesis or doctoral dissertation should contact the student insurance office in Hudson Health Center at 740.597.1816 about the availability of coverage.

If you are married or a single parent, coverage for your dependents is also available.

Intercollegiate Athletics

Mission Statement

The Ohio University Department of Intercollegiate Athletics will provide an NCAA Division I-A athletics program committed to supporting the educational mission of the University. The department will strive to achieve excellence and victory within intercollegiate competition at the highest level with deference to a continued commitment to fairness and integrity.

Ohio University is a Division IA member of the National Collegiate Athletic Association (NCAA) and a charter member of the Mid-American Conference (MAC). The conference, which was founded in 1946, also includes Akron, Ball State, Bowling Green, Buffalo, Central Michigan, Eastern Michigan, Kent State, Miami, Northern Illinois, Toledo, and Western Michigan.

The University fields a total of 20 intercollegiate teams—9 for men and 11 for women. The University offers baseball, basketball, cross country, football, golf, indoor track, swimming and diving, track, and wrestling for men. Basketball, cross country, field hockey, golf, indoor track, lacrosse, soccer, softball, swimming and diving, track, and volleyball are offered for women.

The Reese and Jacoby Trophies are awarded annually by the MAC to the institutions compiling the best overall conference records for men and women respectively.

Athletic facilities include the 13,168-seat Convocation Center, the site of basketball, volleyball, and wrestling contests. Constructed in 1968, the building houses athletic offices, training facilities, locker rooms, and equipment rooms. Peden Stadium, with its five-story Tower and a capacity of 24,000, is the home of Bobcat Football and the Phillips Academic Services Center. The Aquatic Center contains an Olympic-sized pool, including sixteen 25-yard lanes, nine 50-meter lanes, and two one-meter and two three-meter diving boards. The golf teams utilize practice facilities at the Athens Country Club and the University's driving range on East State Street. The baseball team competes at Bob Wren Stadium, while softball plays at a state-of-the-art facility. The \$2.1 million baseball/softball complex was completed in 1998. In November of 1999, the 10,000-square foot Dr. Steve and Kathy Carin Strength and Conditioning Center was dedicated. The multi-purpose facility located in the Athletics Mall includes Pruitt Field and Goldsberry Track. Pruitt Field is the home competition site for field hockey and lacrosse, and the track teams compete on Goldsberry Track, an all-weather eight-lane track facility. Chessa Field, the home of Ohio Soccer, was dedicated in the Fall of 2002.

If you are interested in participating in intercollegiate athletics, contact the head coach of your preferred sport as soon as possible. Contact information can be found at the intercollegiate athletics Web site at <http://www.ohiobobcats.com/>.

International Students

Admission information on undergraduate admission for international students is available from the director of admissions, Chubb Hall. Information on graduate admission is available from the Office of Graduate Studies, McKee House.

Financial Aid

A very limited amount of financial aid is available for undergraduate international students. In no case does this cover more than a portion of tuition or other expenses. Entering international students are eligible to apply for awards based on academic promise; those already enrolled at Ohio University may apply for the same awards, and in addition, may request special aid in cases of demonstrated need. Contact the Office of Student Financial Aid and Scholarships.

Associations

More than 20 internationally oriented student organizations exist at Ohio University, representing national, regional, religious, and social interests. They join together for special programs throughout the year. Programming reaches a high point in spring during International Week and the International Street Fair, conducted in cooperation with the City of Athens and the International Student Union.

The International Student Union (ISU)

ISU functions at Ohio University as the umbrella organization for more than 20 international student organizations and serves as the programming body for the international community on campus. ISU members come from all corners of the world, representing the collective educational, cultural, and developmental interests of more than 100 countries.

Athens Friends of International Students (AFIS)

AFIS runs a hospitality program and an International and Community Women's Program, conducts a weekly coffee hour, and, on a modest scale, matches international students with local American families. Visits may be only for a dinner or an afternoon excursion, but sometimes long friendships develop from this brief opportunity to gain insight into American home life.

The International and Community Women's Program brings together wives of foreign students on campus and interested wives of faculty and community people. It serves as a forum for ideas and information and offers a productive and easy way to participate in University life.

Ohio Program of Intensive English (OPIE)

The OPIE administers English proficiency examinations and provides intensive language instruction for those needing it. (See descriptions of courses and programs elsewhere in this catalog.)

The Office of International Student and Faculty Services

The Office of International Student and Faculty Services offers consultation about any concern, including immigration, financial, and personal problems. All new students, as well as returning students starting a new degree program, must report to this office upon arrival. An orientation program will be conducted for a few days before the opening of each quarter to introduce new students to the campus.

The Office of International Student and Faculty Services also works with other departments and organizations on campus such as Residence Life, Campus Life, International Studies, Phi Beta Delta, and the International Student Union to promote international programs, including cross-cultural workshops and the annual International Week, which create a welcoming and supportive climate for international students.

International Family Program

Support services are provided to international families through the Office of International Student and Faculty Services. Upon arrival, family members are given information about health care and insurance, English language classes, community services, and social activities. International advisors are also available for consultation on immigration and employment questions.

Libraries

The Ohio University Libraries are central to learning, teaching, and research activities of students and faculty. The main library on the Athens campus is Alden Library, located on the College Green. Other facilities include the Music/Dance Library in the Music Building, the Library Annex, and libraries at each of the regional campuses.

Staff

The Alden Library staff of 112 information specialists organize and provide access to information of all kinds and assist and consult with library users in person and online. Each of Alden Library's seven floors has at least one service center to help library users. Librarians also offer a variety of orientation and instructional programs to

strengthen students' awareness and understanding of information resources and the research process.

Collections

The Libraries' collections include more than 2 million printed volumes and over 100,000 electronic resources, including e-books, e-journals, databases, and image collections, available on the Internet. In addition, the collections of maps, microforms, photographs, videos, CDs, and other non-print items number nearly 3 million. The Libraries' Web site serves as a gateway to the print and electronic collections.

Ohio University students and faculty also have easy access to library materials from across the state through the Libraries' participation in OhioLINK, a consortium of academic libraries. OhioLINK offers over 39 million items for quick delivery from 85 other Ohio libraries. Through OCLC, an international network, and other partners, materials from other U.S. libraries and from around the world are readily available for research and study.

Services

Alden Library is open 146 hours per week, and provides 24 hour access to the Learning Commons Sunday through Friday. Hours are extended at the end of each quarter, before and during final exams. For those who use the library for reading and study, there are about 2,500 seats and, for group projects, a number of group study rooms.

Alden Library Learning Commons, a collaborative endeavor with Computer Services and University College, provides students with a technology-enriched learning environment. Located on the 2nd floor with seating for approximately 400, the Learning Commons offers an appealing atmosphere conducive to individual research, group study, or collaborative course projects. The state-of-the-art facility houses 125 computer workstations, multi-media stations, networked printers, and access to a variety of software applications. In addition, the Learning Commons "desktop" is applied to approximately 300 public workstations located throughout the building to provide a common interface to library resources for all users. Qualified and friendly library staff offer reference assistance and research consultation. Writing Center advisors provide consultations on writing projects, and Computer Services assistants help users with hardware and software. With the exception of finals week and inter-session, the Learning Commons is open 24 hours Sunday through Friday and until midnight on Saturdays.

The Library houses separate subject and special collections: Archives and Special Collections, Children's Collection, Fine Arts Library, Government Documents Department, Health Sciences Library, Instructional Media and Technology Services, Map Collection, Microforms and Non-print Collection, and the Center for International Collections.

Instructional Media Services (IMS)

IMS, located on the second floor of Alden Library, provides audiovisual equipment and services to the entire University community. IMS offers for lending more than 14,000 instructional video and DVD titles. Graphic production services, including research poster displays and digital AV and Web materials, are available upon faculty request. Audiovisual equipment such as projectors and recorders can be rented by registered campus student organizations.

For more information about the Ohio University Libraries, visit our World Wide Web site: <http://www.library.ohio.edu/>.

Multicultural Programs

The Office of Multicultural Programs seeks to provide a diverse range of programs and opportunities that are educational, recreational, social, and cultural. Committed to supporting and promoting multicultural awareness and appreciation, the staff develops programs that increase understanding and appreciation of cultural differences by familiarizing the campus community with the contributions and histories of African American, Hispanic/Latino, Asian/Pacific Islander, and Native American cultures. Other services include:

Programming

The office plans and coordinates professional, educational, and cultural programs such as the annual Hispanic Heritage Month, American Indian Heritage Week, Kwanzaa Celebration, Black History Month, and Asian American/Pacific Islander Heritage Month.

Advising

The Office of Multicultural Programs has formal advising relationships with the Black Student Cultural Programming Board (BSCP); and the Ohio University chapter of the National Pan-Hellenic Council (NPHC). The office maintains an informal advising relationship with ethnic student organizations such as the Native Peoples Awareness Coalition (NPAC), and Alpha Psi Lambda, the co-ed Hispanic-interest fraternity. All of these organizations plan programs

and activities that benefit the entire University community.

Cultural Center

The cultural center serves as a place where cultural teaching and learning is the focus of all programs and activities. Its focus is intercultural, and provides a place where members of the University community, representing a variety of backgrounds, participate in programs and activities. All programming in the Center is designed to increase human understanding through the study and expression of culture.

The center is comprised of 5,000 square feet of space including a community lounge, a large meeting room, an art gallery, a multipurpose room, computer lab, and office spaces for staff and students.

Activities include art exhibits, musical and literary presentations, organizational meetings, workshops, lectures, discussions, and leadership development and training activities.

Please visit our Web site at <http://www.ohio.edu/culturalcenter/> for the latest information about our programs.

Office of the University Ombuds

The role of the Ombuds is to facilitate fair and equitable treatment of students, faculty, and staff within the University system. The Ombuds office can make inquiries on your behalf, help you make an informed response to your situation, mediate or facilitate discussions, and make recommendations for procedural or policy change. Complaints and grievances brought to the Ombuds are handled with confidentiality. The office seeks informal resolution of issues and can also provide advice on formal University grievance procedures.

Parking/Motor Vehicle Registration

On-campus resident parking is available on a limited basis for students with sophomore status or higher. Freshmen living on campus are not permitted to purchase parking. Commuter parking is available to all students who live outside a certain radius of campus. More information can be obtained at the Parking Services Web site: <http://www.facilities.ohio.edu/parking/> or by stopping by Parking Services located at 100 Factory Street, or by calling 740.593.1917.

Before students can drive or park on Ohio University property, they must register their vehicle with Parking Services. Failure to register a motor vehicle or parking illegally makes the violator subject to penalties as printed on the violation/citation. Motorcycle parking is restricted to specifically designated areas. There is no charge to register vehicles.

Parking maps are also available free of charge at Parking Services.

CATCAB is a free service designed to transport students, faculty, and staff with permanent or temporary mobility limitations. Users of this service are asked to pre-schedule for transports to classes and other campus functions. CATCAB is available 7:45 a.m. to 7:30 p.m. Monday through Friday. Schedules and other information regarding the use of CATCAB can be obtained by calling 597.1909.

University Police

The Ohio University Police Department (OUPD) is a full-service professional law enforcement agency, with uniformed police officers patrolling throughout the campus community 24-hours a day, 365 days a year. Ohio University Police Officers patrol on foot, in marked cruisers, and on bicycle. Having a full-time law enforcement agency operating on campus allows uninterrupted safety and security, continuous customer service, and immediate response to emergency situations. The department's mission is to enhance the quality of life for our community through law enforcement, education, and a team approach to problem solving. The department is involved in many functions that assist with safety and security of the Ohio University campus and its students, staff, faculty, and visitors. Emergency "Blue Light" telephones have been installed on the main entrance of every residence hall as well as various locations throughout the University campus. Issues with safe and secure lighting are also monitored by the Ohio University Police Department. Students and others are encouraged to identify areas on campus they feel are not sufficiently lighted.

Department members provide and participate in educational programs designed to help educate University community members about their own safety and the safety of others.

The SAFE-T (Safe Arrival For Everyone-Tonight) Patrol Division provides a free walking escort to all students, staff, faculty, and visitors at

Ohio University. The service is available every night of the week during the academic quarters. SAFE-T Patrol's mission and focus is to provide Safe Arrival For Everyone concerned about their safety on campus.

A SAFE-T Patrol team will be glad to meet you and escort you safely to your destination within the campus community and limited areas adjacent to campus. While on duty, all teams are under the supervision of a police lieutenant and in constant radio contact with the Ohio University Police Department.

Hours of operation are 7 p.m. to 2 a.m. every night during the academic quarter. We do not operate on recognized holidays. Service can be provided during hours of operation by calling 740.593.4040 or by simply stopping a SAFE-T Patrol team on duty and requesting their assistance for a safe walk to your destination. If you need assistance outside the normal hours of operation, please contact the OUPD at 593.1911.

Campus Recreation

The Division of Campus Recreation, under the administration of the College of Health and Human Services, is committed to the health and wellness of the Ohio University community. A commitment is made to improve the quality of life by providing quality facilities and programs and ensuring customer satisfaction.

The division is composed of these facilities: Aquatic Center, Bird Ice Arena, Charles J. Ping Student Recreation Center, disc golf, driving range, Golf and Tennis Center, Outdoor Pursuits Rental Center and the Challenge Course. There are programs in club sports, fitness, intramural sports, and outdoor pursuits. These areas complement one another in providing students with facilities and programs to meet their recreational interests and also fulfill University goals by encouraging physical, emotional, and social growth.

The Aquatic Center features a long course indoor swimming pool that has two three-meter and two one-meter diving boards, an underwater observation area for viewing swimming and diving techniques, and a sun deck.

Bird Ice Arena is an indoor arena that features an illuminated 190-by-85 foot ice surface with fiberglass dasher boards. The arena is equipped with skate rentals, skate sharpening, pro shop, concession stand, and a viewing/party lounge. Bird Arena serves as home ice for the Ohio

University Ice Hockey Club Team and Synchronized Ice Skating Team. Other activities include recreational skating, Recreation and Sport Science classes, Intramural broomball, recreational hockey, learn-to-skate programs, figure skating, and late night skate sessions.

The Ping Center is one of the largest campus recreational facilities in the country. The center offers a 36-foot high double-sided climbing wall, five basketball/volleyball courts, two multi-purpose gymnasiums, an elevated four-lane running track, eight racquetball courts (two convert to squash courts and four convert to wallyball courts), and a combative arts room. A small games area offers billiard tables, table tennis, air hockey, and foosball. The fitness area and free weight room provides users with a variety of cardiovascular and resistance training equipment, including equipment for physically challenged individuals. Spacious aerobics and combative arts rooms are also available. The lounge is furnished with sofas, chairs, chess tables, a big screen television, dance floor, and electronic mail stations.

The Golf and Tennis Center, located immediately next to the Ping Center, consists of a nine-hole Par 35 golf course, putting greens, four indoor tennis courts, and six outdoor tennis courts. The indoor tennis courts are covered by a 40-foot tent structure, allowing players to compete in state-of-the-art playing conditions. The clubhouse offers golf and tennis equipment rentals, golf cart rental, racquet restringing, private lessons, concessions, and resale items.

The illuminated 300-yard driving range is located on West State Street and can accommodate approximately 30 drivers.

Located at the Golf and Tennis Center, the nine-hole disc golf course is played similar to traditional golf except that players attempt to land a Frisbee-type disc into an elevated metal basket that serves as a catcher. Individual discs or sets may be purchased at the center.

The Outdoor Pursuits Program provides opportunities for outdoor adventure sports and activities. It offers outdoor trips, outdoor clinics, gear rental and sales, an outdoor climbing tower, a low and high challenge course, and an indoor climbing wall. The Outdoor Pursuits Program is housed in the Ping Center.

The Outdoor Pursuits Rental and Sales Center offers for rent or sale backpacking, camping, climbing, canoeing, and scuba diving equipment. The rental center is located outside the east wing of the Ping Center next to the loading dock.

The Challenge Course, also known as a ropes course, is a fun and exciting way to work towards various goals with a group. Through a variety of elements and team-building activities, the course takes participants to new heights. Composed of a low course and a high course, participants utilize their physical and mental strengths to reach individual and group goals. The Challenge Course is available on a private rental basis to groups of 10-15. Students, faculty/ staff, alumni, and the community are welcome.

The Ping Center, Aquatic Center, and the Golf and Tennis Center, open year round, are available to students, faculty, staff, and alumni. The Golf and Tennis Center is also available to the community. The Aquatic Center is open to the community during lap and recreational swim times; the Ping Center is available to the community on special weekend events and as guests of students, faculty, staff, and alumni. Bird Arena and driving range operations are seasonal and open to students, faculty, staff, alumni, and the community.

The division administers more than 30 recognized club sports on campus. Each club is run by students and establishes an organizational framework, leadership, and a schedule to meet the needs of its members. New clubs can be organized if they meet the needs of the University community. Many of the outdoor club sport activities take place on the South Green club sports fields, the Stimson Avenue club sports fields, and the West State Street club sports fields. Use of these fields is by reservation only.

The Fitness Program offers diverse program opportunities, including fitness sessions ranging from traditional Step and Hi/Lo to Cardio Kick. Mind/Body sessions offer exciting activities such as Yoga and Pilates®. Personal fitness training and fitness assessments also are available. A registered dietician is on staff to provide nutritional services. Two licensed massage therapists offer 30- and 60-minute massages.

The Intramural Sports Program offers a diverse set of structured activities for students, faculty, and staff. The program offers individual, dual, and team sports for men, women, and coed teams. Team activities include dodgeball, basketball, bowling, broomball, flag football, floor hockey, indoor soccer, sand volleyball, outdoor soccer, softball, volleyball, and wallyball. Team sports activities are scheduled in leagues, which play during the afternoons and evenings. Individual and dual activities are offered for air hockey, badminton, bench press, billiards, cross country, darts, disc golf,

foosball, horseshoes, racquetball, squash, table tennis, tennis, and wrestling. Individual and dual activities may be scheduled events or are scheduled to fit the availability of the participants.

The division also offers recreational special events throughout the year. For more information on facilities and programs, call 740.597.CREC or visit our Web site at <http://www.ohio.edu/recreation/>.

University Registrar

The Office of the University Registrar provides a wide range of services to the academic community. The mission is to provide these services in an efficient manner that allows students and other members of the academic community to use the services with minimum difficulty and maximum satisfaction. A guiding principle is always to respond to legitimate requests for information or services as quickly and accurately as possible. When the requested information or service is not the responsibility of the office, then the principle is to help the student, faculty/staff member learn how to get the help they need. This is done always within the spirit of the University's policies and standards, helping those we serve get what they have a right to expect and understand what they do not have a right to expect.

Many services are available online at <http://www.ohio.edu/registrar/>. Services for students include registration, schedule of classes, grade reports, address update, class schedules, transcripts, degree audit (DARS) reports, and graduation application. Faculty may obtain class lists and advisee lists and use these tools to communicate with their students. Other services provided by the Office of the University Registrar include classroom scheduling, veterans educational benefits, degree and enrollment verification, re-enrollment processing, and maintenance of student personal information (address, phone, name, etc.).

The office is open 8 a.m. to 5 p.m. Monday-Friday. Visit the Registrar Services Windows, first floor lobby, Chubb Hall; call 740.593.4191; or e-mail registrar@ohio.edu.

Residence Life

The Department of Residence Life supports the educational goals of the University in the residence halls. The staff promotes community living, fosters the development of individuals and

groups within the living environment, and provides support and information to residents.

Residence life offices are located on each green (East, South, and West). A central office is located on the College Green.

Each green has full-time professional and paraprofessional live-in staff that has been carefully selected and trained to offer informed and meaningful assistance. The staff-to-student ratio in upperclass halls is about 1:35, while in freshman halls it is 1:26. The department also coordinates a student security aide program.

Services offered by this department include providing a safe and healthful environment conducive to sound academic pursuit; creating opportunities for growth and development through educational, recreational, social, and cultural programming; involving faculty in the residence halls as faculty associates and resource people; meeting the needs of students through the use of special-interest housing (intensive study, residential learning communities, honors, scholars, academic emphasis); promoting student involvement and leadership by encouraging participation in hall government; emphasizing the concepts of responsibility, respect, and consideration for others; interpreting University policies and procedures; serving as an information source and referral agent to other University services; and providing confidential personal advising for such concerns as adjustment, academic performance, substance abuse, and relationships.

Much of the learning that occurs during the collegiate experience takes place outside the formal classroom setting. The living-learning atmosphere of the residence hall is one of the prime catalysts in this growth process. While each residence hall is unique in character and spirit, they all offer the opportunity to meet, interact with, and learn from a diverse student population.

Student Senate

Student Senate is the elected representative voice of the student body and is part of the network of campus governmental bodies that also includes the Administrative Senate, Classified Senate, Faculty Senate, and Graduate Student Senate. Student Senate initiates programs and coordinates activities beneficial to students. Student Senate is responsible for the appointment of

undergraduate students to University committees, and for allocating more than \$348,000 a year to student organizations. You are encouraged to contact the Student Senate for help in resolving issues and for information regarding programs and projects.

Baker University Center

The John Calhoun Baker University Center is a focal point of cocurricular life at Ohio University. A variety of facilities, programs, and services are provided to the University community.

Campus Programs

Baker University Center manages a variety of programs and lets everyone know about campus events. We advise University Program Council (UPC), coordinate late night programming, and supply event information to the University community. UPC brings cultural, social, educational, and entertainment programs to the University in collaboration with the International Student Union (ISU), the Black Student Cultural Programming Board (BSCPB), and the Residence Action Council (tRAC). In addition to enjoying UPC's events, you can become involved with the UPC Street Team whose members help promote events and serve as the pulse of the group.

The Recreation Room

Located in the basement, offers a variety of recreational activities including billiards, air hockey, pinball, and video games.

The Front Room

A campus coffeehouse, serves espresso, cappuccino, Starbucks coffee, and specialty gourmet coffees, as well as tea, soda, seltzers, and juices. Also available are locally produced baked goods. Open seven days a week until midnight, it is a popular place to meet friends. Activities are planned for many nights and include dance nights, talent shows, open stage, poetry readings, lectures, and live performances by local and regional jazz, rock, country, and rhythm and blues artists.

The Corner Café

Located on the ground floor, serves Salubre Pizza, Subsation Subs, and Nathan's Hot Dogs daily for lunch and dinner.

The State Room

Located on the first floor, serves lunch daily. Also available are private rooms for luncheon meetings and a catering service.

The Information Center

In the main lobby provides general University information about events and services on campus as well as up-to-date listings of students, faculty, and staff. Adjacent to the lobby are a United States Post Office, the 1954 Lounge, the Alumni Lounge, and the 1804 Lounge, which includes a grand piano.

Other services available include an automated teller machine, telephones providing free local calls, personal check cashing service, photocopy machine, and e-mail access.

Meeting and reception rooms are available in Baker Center for groups from 10 to 500. Available are a ballroom, the Alumni Lounge and the 1804 Lounge, as well as 10 meeting rooms of various sizes. Reservations can be made at the administration office, Room 201. Baker University Center also houses the Office of Campus Life, Banquet and Catering Services, University Judiciaries, Off-Campus Living Office, Lesbian Gay Bisexual Transgender Programs, the Center for Community Service, the Dean of Students Office, and the following student organizations:

Alpha Phi Omega	417
Athena Yearbook	320
Black Student Cultural Programming Board	419
Interfraternity Council	428
International Student Union	425
National Pan-Hellenic Council	305
The Post	Ground floor
Student Activities Commission	311
Student Senate	309
Students Defending Students	328
University Program Council (UPC)	407
Women's Panhellenic Association	428

For more information about the University Center, please visit <http://www.ohio.edu/baker/>.

Colleges and Curricula

Academic Organization

Ohio University offers curricula in more than 250 undergraduate majors leading to bachelor's or associate's degrees through nine colleges: Arts and Sciences, Business, Communication, Education, Engineering and Technology, Fine Arts, Health and Human Services, Honors Tutorial, and University. Programs are also offered through the Center for International Studies, the Division of Lifelong Learning, and the College of Osteopathic Medicine. The Office of Graduate Student Services coordinates graduate study at Ohio University.

Ohio University is fully accredited by the North Central Association of Colleges and Schools at the bachelor's, master's, and doctoral levels. In addition, numerous departments, schools, and colleges within the University hold individual accreditation as listed below. Additional information is available from the office of each college's dean.

The following list of colleges and areas includes degrees, accrediting agencies, and schools and departments.

College of Arts and Sciences

Curricula leading to the Bachelor of Arts and Bachelor of Science degree; preprofessional curricula; and preparation for teaching at the secondary level.

Accreditation

American Psychological Association
Council on Social Work Education

Departments

African American Studies
Biological Sciences
Chemistry and Biochemistry
Classics and World Religions
Economics
English
Environmental and Plant Biology
Geography
Geological Sciences
History
Linguistics
Mathematics
Modern Languages
Ohio Program of Intensive English*
Philosophy
Physics and Astronomy
Political Science
Psychology
Social Work
Sociology and Anthropology
Women's Studies

College of Business

Curricula leading to the Bachelor of Business Administration degree.

Accreditation

AACSB—The International Association of Management Education
Departments/Schools
Accountancy
Finance
Management Information Systems
Management Systems
Marketing

Scripps College of Communication

Curricula leading to the Bachelor of Science in Communication, Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication degrees.

Accreditation

Accrediting Council on Education for Journalism and Mass Communication
Schools
Communication Studies
Communication Systems Management
Journalism
Telecommunications
Visual Communication

College of Education

Teacher training curricula leading to the Bachelor of Science in Education degree; supervision of student teaching and other field experiences in education.

Accreditation

NCATE
CACREP
CORE

Departments

Counseling and Higher Education
Educational Studies
Teacher Education

Russ College of Engineering and Technology

Curricula leading to the Bachelor of Science in Aviation, Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Industrial and Systems Engineering, Industrial Technology, and Mechanical Engineering.

Accreditation

Accreditation Board for Engineering and Technology
National Association of Industrial Technology
Departments/Schools
Aviation
Chemical Engineering
Civil Engineering
Electrical Engineering and Computer Science
Industrial and Systems Engineering
Industrial Technology
Mechanical Engineering

College of Fine Arts

Curricula leading to the Bachelor of Fine Arts, Bachelor of Music, and Bachelor of Arts degrees.

Accreditation

National Association of Schools of Art and Design

National Association of Schools of Dance

National Association of Schools of Music

National Association of Schools of Theater

Schools

Art

Dance

Film

Interdisciplinary Arts

Music

Theater

College of Health and Human Services

Curricula leading to the Bachelor of Science in Athletic Training; Environmental Health; Health; Hearing, Speech and Language Sciences; Human and Consumer Sciences; Industrial Hygiene; Nursing; Physical Education; Recreation Studies; and Sport Sciences; entry-level graduate curriculum leading to the Doctor of Physical Therapy.

Accreditation

Accreditation Board for Engineering and Technology

American Alliance for Health, Physical Education, Recreation, and Dance

American Association of Family and Consumer Sciences

Commission on Accreditation for Dietetics Education

Commission on Accreditation for Physical Therapy Education

Commission on Accreditation of Allied Health Education Programs

Commission on Collegiate Nursing Education

Council on Academic Accreditation of the American Speech-Language-Hearing Association

Foundation for Interior Design, Education, and Research

National Association of Boards of Examiners for Nursing Home Administrators

National Council for Accreditation of Teacher Education

National Environmental Health Science and Protection Accreditation Council
National Recreation and Park Association/American Association for Leisure and Recreation

Sport Management Program Review Council

Schools

Health Sciences

Hearing, Speech and Language Sciences

Human and Consumer Sciences

Nursing

Physical Therapy

Recreation and Sport Sciences

Honors Tutorial College

A renowned degree-granting college with 26 programs of study. Honors Tutorial College students undergo a rigorous and exhilarating academic experience that combines a set of tutorials, upper division classes, and selected graduate courses. In order to allow students to pursue this challenging form of undergraduate education, Honors Tutorial College students are exempt from General Education Requirements, except English composition. A high percentage of the students in this college enter graduate or professional school. You may request consideration for admission to the Honors Tutorial College and must indicate a program of study at the time of application.

University College

College for students who have not decided on a major. Two-year programs leading to the Associate in Arts, Associate in Science, and Associate in Individualized Studies degrees. Four-year programs leading to the Bachelor of Specialized Studies and Bachelor of Criminal Justice degrees. Two and four-year Reserve Officers' Training Corps programs leading to commissions in the U.S. Army and the U.S. Air Force.

Graduate Studies

Programs leading to the Master of Arts, Master of Business Administration, Master of Communication Technology and Policy, Master of Education, Master of Fine Arts, Master of Health Administration, Master of Music, Master of Public Administration, Master of Public Health, Master of Science, Master of Social Science, Master of Social Work, Master of Sports Administration, Doctor

of Audiology, Doctor of Education, Doctor of Philosophy, and Doctor of Physical Therapy degrees. Certificate programs are also offered in the areas of Conservation Biology*, Contemporary History*, Geographic Information Science, Gerontology, Health Care Services Administration, Health Policy, Music Performance, and Women's Studies*. (See the Graduate Catalog for specific programs and majors.)

*participants in these certificate programs must be concurrently admitted to a graduate degree program as a degree-seeking student.

Center for International Studies

Jointly administers a Bachelor of Arts in International Studies with the College of Arts and Sciences. For non-majors, the Center offers certificates in:

African Studies
Asian Studies
European Studies
Latin American Studies.

Lifelong Learning

Provides educational opportunities to traditional and nontraditional learners, through the use of alternative teaching and learning formats.

Both credit and noncredit programs are available to students on campus, as well as at a distance.

College of Osteopathic Medicine

Offers a four-year medical education program leading to the Doctor of Osteopathic Medicine degree (see separate catalog) and postdoctoral programs in family practice, general surgery, orthopedics, pediatrics, and obstetrics and gynecology. Accredited by the American Osteopathic Association.

Regional Campuses

Chillicothe

Eastern (St. Clairsville)

Lancaster

Southern (Irononton)

Zanesville

Major Codes

The following is a listing of undergraduate major codes arranged by the college in which each major is offered. Some programs and majors are offered through more than one college, and not all majors are open to incoming freshmen. For specific information on a particular program, see the appropriate college section of the catalog.

Major Code Prefixes

The two-letter prefix of each major code indicates the type of degree awarded in that major. In some cases, it indicates that an additional application process is required for admission to the major.

AA	Associate in Arts
AAS	Associate in Applied Science
AS	Associate in Science
BA	Bachelor of Arts
BB	Bachelor of Business Administration
BC	Bachelor of Science in Communication
BF	Bachelor of Fine Arts
BJ	Bachelor of Science in Journalism
BM	Bachelor of Music
BS	Bachelor of Science
ND	Nondegree program
SA	Separate application required

College of Arts and Sciences

Some of the majors in this college have two major codes. In general, with these majors you have the option of choosing *either* a degree program that is more hard sciences oriented (BS) or one that is more liberal arts/humanities oriented (BA). Details on curricular differences can be found in the College of Arts and Sciences section under the specific program listings. You may want to consult with an admissions officer or a college representative about which option is more suitable for you.

BA4903	African American Studies
BA4252	Anthropology
BS2121	Biological Sciences
BS2520	Cellular and Molecular Biology
BS2121	Integrated Biology
BS2126	Marine, Freshwater, and Environmental Biology
BS0411	Microbiology
BS2507	Pre-Physical Therapy
BS2127	Pre-Professional Program

BS2515	Wildlife and Conservation Biology
	Chemistry and Biochemistry
BS3311, BA3311	Chemistry
BS3316	Biochemistry
BS3315, BA3315	Environmental Chemistry
BS3310	Forensic Chemistry
BS3312, BA3312	Pre-dentistry
BS3313	Prepharmacy
BS3314, BA3314	Premedicine
	Classics and World Religions
BA5214	Classical Civilization
BA5212	Greek
BA5213	Greek and Latin
BA5211	Latin
BS5215	World Religions
BA4221	Economics
BA4223	Pre-Foreign Service
BA4222	Prelaw
BA5231	English
BA5232	Creative Writing
BA5234	Prelaw
BA5233	Pretheology
	Environmental and Plant Biology
BS2118	Cell Biology and Biotechnology
BS2113	Environmental Biology
BS2115	Applied Ecology
BS2111, BA2111	Plant Biology
	Environmental Studies
	(see Biological Sciences, Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geological Sciences)
BS4231, BA4231	Geography
BS4232	Environmental
BS4237	Environmental Prelaw
BS4235	Geographic Information Science Analyst
BS4238	Meteorology
BS4234, BA4234	Urban Planning

BS3321, BA3321	Geological Sciences
BS3323	Environmental
BA4211	History
BA4212	Pre-Foreign Service
BA4214	Prelaw
BA4213	Pretheology
ND4404	International Studies* pre-major status
BA4405	Africa
BA4406	Asia
BA4407	Europe
BA4408	Latin America
BA5290	Linguistics
BS3101, BA3101	Mathematics
BS3105, BA3105	Actuarial Sciences
BS3103	Applied
BS3104, BA3104	Meteorology
BS3102, BA3102	Prep. for Advanced Training
	Modern Languages
BA5221	French
BA5222	German
BA5224	Russian
BA5225	Spanish
BA5241	Philosophy
BA5244	Prelaw
BA5242	Pretheology
BS3331, BA3331	Physics
BS3332	Applied Physics
BS3335	Astrophysics
BS3338	Meteorology
BA4201	Political Science
BA4202	Pre-Foreign Service
BA4203	Prelaw
BA4200	Public Administration
BA4101	Psychology
BA4105	Pre-Physical Therapy
BA6601	Social Work ¹
ND6603	Pre-Social Work*
BA4251	Sociology
BA4253	Criminology
BA4254	Prelaw
BA4402	Women's Studies
ND0410	Undecided**

* These entry-level programs do not fulfill a degree but are intended as preparation for admission into a major or professional school or program.

¹ Not open to freshmen; you must complete the Pre-Social Work Program before you can become a social work major.

**Some restrictions apply. See Undecided under College of Arts and Sciences.

College of Business

BB6121	Accounting
BB6124	Business Economics
BB6120	Business Prelaw
BB6125	Finance
BB6122	General Business
BB6130	Human Resource Management
BB6132	International Business
BB6126	Management and Strategic Leadership
BB6137	Management Information Systems
BB6127	Marketing
ND0610	Undecided

Scripps College of Communication

BC5363	Communication Studies Concentrations: Organizational Communication Communication and Public Advocacy Health Communication
BC5329	Communication Systems Management (Voice/data/image communication network and services. Electives in data communication, voice communication systems, international communication, regulatory policy)
	Journalism
BJ6910	Carr Van Anda
BJ6932	Advertising Management
BJ6933	Magazine Journalism
BJ6934	News Writing and Editing
BJ6909	Online Journalism
BJ6935	Public Relations
BJ6936	Broadcast News
	Telecommunications
BC5353	Audio-Music Production
BC5354	Audio-Post-Production
BC5312	Management
BC5311	Media Studies
BC5313	Video Production

BC5322	Digital Media: Special Effects, Games, and Animation
	Visual Communication
BS6924	Informational Graphics/Publication Design
BS6923	Interactive Multimedia
BS6922	Photojournalism
BS6925	Commercial Photography

College of Education

	Early Childhood Education
ND6854	Early Childhood Pre-major
BS6854	Early Childhood Education ¹
	Middle Childhood Education
BS6175	Mathematics and Social Studies
BS6176	Science and Social Studies
BS6177	Mathematics and Science
BS6178	Language Arts and Social Studies
BS6179	Language Arts and Science
BS6180	Language Arts and Mathematics
	Special Education
BS6316	Special Education-Intervention Specialist Mild-Moderate Educational Needs
BS6317	Special Education-Intervention Specialist Moderate Intensive Educational Needs
	Adolescent to Young Adult Programs
BS6314	Life Science
BS6315	Earth Science
BS6306	Integrated Language Arts
BS6307	Integrated Mathematics
BS6309	Integrated Science
BS6308	Integrated Social Studies
BS6310	Physical Science

Multi-age Programs

BS6232	French
BS6235	Spanish
BS6233	German
BS6312	Physical Education ¹

ND0810 Undecided

¹ Offered in both the College of Education and the College of Health and Human Services. You may receive teacher licensure regardless of the college in which you enroll.

Russ College of Engineering and Technology

	Aviation
BS7261	Aviation Management
BS7258	Flight
AA7250	Aviation Technology
BS7251	Chemical Engineering (technical electives in environmental engineering, materials science and processing, and biochemical engineering)
BS7252	Civil Engineering (technical electives in environmental engineering, geo-technical engineering, pavements, surveying, structural mechanics and design, transportation and water resources)
BS7260	Computer Science (areas of specialization in artificial intelligence, computer networking, computer science theory, database systems, operating systems, parallel processing/compilers, and software engineering)
BS7253	Electrical Engineering: electrical engineering track (technical electives in avionics, circuit design, communication, computers, control systems, electromagnetics, electronics and instrumentation, energy sources and systems, and power transmission and distribution)
BS7254	Electrical Engineering: computer engineering track
BS7255	Industrial and Systems Engineering (technical electives in manufacturing systems, manufacturing information systems, and operations research)

B57256 Industrial Technology
(focus areas include materials and processes or manufacturing information technology; also includes minor in business)

B57257 Mechanical Engineering
(technical electives in energy, thermal systems, CAD/CAM, materials processing, vehicle dynamics, robotics, manufacturing, and machine design)

ND0910 Undecided

College of Fine Arts

Art
ND5153 General Art
BF5123 Art History¹
BF5127 Ceramics¹
BF6321 Graphic Design¹
BF5124 Painting¹
BF5143 Photography¹
BF5128 Printmaking¹
BF5126 Sculpture¹
BA5193 Art

BF5151 Dance

Music
ND5117 Pre-Music
BM5105 Music Composition
BM5106 Music Education—Choral
BM5107 Music Education—Instrumental
BM5114 Music History and Literature
BM5116 Music Theory
BM5115 Music Therapy
BM5103 Orchestral Instruments
BM5102 Organ Performance
BM5104 Piano Pedagogy
BM5100 Piano Performance
BM5101 Voice Performance
BA5195 Music

Theater

BF5137 General Theater
BF5167 Management²
BF5161 Performance²
BF5165 Playwriting²
BF5162 Production Design and Technology²
BA5194 Theater

ND9917 Nondegree

¹ Not open to freshmen; apply initially as a General Art major.

² Not open to freshmen; apply initially as a General Theater major.

College of Health and Human Services

Health Sciences

B58105 Community Health Services
B56260 Environmental Health Science
B58119 Health Services Administration
B53309 Industrial Hygiene
B56836 Long-Term Health Care Administration

B55305 Hearing, Speech and Language Sciences

Human and Consumer Sciences

AA1106 Child Development
B56360 Dietetics
ND6355 Pre-Early Childhood^{1, 5}
B56370 Family and Consumer Sciences Education²
B56351 Family Studies
ND6383 Pre-Interior Architecture⁵
B56383 Nutrition with Science
B56361 Restaurant, Hotel and Tourism
ND6380 Pre-Retail Merchandising⁵

Nursing

ND1205 Pre-Baccalaureate Nursing³
B51203 Baccalaureate Nursing³
ND1204 School Nurse³

Physical Therapy⁴

Recreation and Sport Sciences

ND8142 Pre-Athletic Training⁵
ND8106 Pre-Physical Education^{2, 5}

Recreation Studies

B58113 Adventure Recreation
B58108 Outdoor Education and Camping
B58109 Recreation Management

Sport Sciences

ND8122 Pre-Exercise Physiology⁵
ND8123 Pre-Sport Management⁵

ND0210 Undecided

¹ Jointly offered by both the College of Education and the College of Health and Human Services. Degree awarded is Bachelor of Science in Education regardless of College.

² Offered in both the College of Health and Human Services and the College of Education. Apply initially to the College of Health and Human Services. You may receive teacher licensure regardless of the College in which you enroll.

³ Not open to freshmen—available only to registered nurses.

⁴ Not open to freshmen—selective admission doctoral program. Enter through a preparatory program such as Biological Sciences Pre-Physical Therapy or Psychology Pre-Physical Therapy in the College of Arts and Sciences, or Sport Sciences—Exercise Physiology in the College of Health and Human Services. You must apply for the doctoral program through the School of Physical Therapy.

⁵ Selective admission program. Consult the program listing for details.

Honors Tutorial College

Some of the majors listed below have two major codes, of which you will select one. In general, the second option (BA) provides a curriculum that is more liberal arts oriented. You may want to consult with an admissions officer or a college representative regarding which option is more suitable for you.

BA1934 Anthropology

BS1931 Astrophysics

BS1902 Biological Sciences

BB1926 Business

BS1904 Chemistry

BA1932 Classics

BS1918 Communication Studies

BA1929 Computer Science

BF1906 Dance

BS1925 Engineering Physics

BA1916 English

BS1901 Environmental and Plant Biology

BF1924 Film

BA1914 French

BS1919 Hearing, Speech and Language Sciences

BA1909 History

BJ1923 Journalism

BS1903	Mathematics
BA1917	Philosophy
BS1905	Physics
BA1908	Political Science
BA1930	Social Work
BA1912	Sociology/ Sociology- Criminology
BA1915	Spanish
BC1920	Telecommunications
BF1913, BA1913	Theater

University College

	Associate in Arts
AA1101	Arts and Humanities Emphasis
AA1110	Social Sciences Emphasis
AI5508	Associate in Individualized Studies ¹
AS1104	Associate in Science
BC2209	Bachelor of Criminal Justice ²
BS1112	Bachelor of Specialized Studies ³
ND1201	Undecided

¹ Separate application required.

² Requires an associate's degree in an area related to criminal justice for admission. Not open to first-year students.

³ Separate application required. Not open to first-year students.

Regional Campuses

The following degrees are available on all regional campuses:

	Associate in Arts
AA1101	Arts and Humanities Emphasis
AA1110	Social Sciences Emphasis
AS1104	Associate in Science
BT5510	Bachelor of Technical and Applied Studies

Chillicothe Campus

AI5508	Associate in Individualized Studies
AA5006	Business Management Technology
AA1106	Child Development

AA5010	Computer Science Technology
AA5003	Deaf Studies and Interpreting
AA5018	Environmental Engineering Technology
AA5004	Hazardous Materials Technology
AA5201	Human Services Technology
AA5505	Law Enforcement Technology
ND2341	Pre-Nursing
AA2342	Nursing, RN
AA5014	Office Technology

Lancaster Campus

AI5508	Associate in Individualized Studies
AA5002	Accounting Technology
AA5006	Business Management Technology
AA1106	Child Development
AA5010	Computer Science Technology
AA5013	Electronic Media
AA5020	Industrial Maintenance Technology
AA5505	Law Enforcement Technology
AA5019	Medical Assisting Technology

Southern Campus

AI5508	Associate in Individualized Studies
AA5002	Accounting Technology
AA5006	Business Management Technology
AA1106	Child Development
AA5010	Computer Science Technology
AA5013	Electronic Media
AA5017	Equine Studies
AA5201	Human Services Technology
AA5505	Law Enforcement Technology

AA5021	Materials Management Technology
ND2341	Pre-Nursing
AA2342	Nursing, RN
AA5014	Office Technology
AA5016	Travel and Tourism
Zanesville Campus	
AI5508	Associate in Individualized Studies
AA5013	Electronic Media
ND2341	Pre-Nursing
AA2342	Nursing, RN

¹ Separate application required.

Minor Codes

In general, all academic minors are open to any student pursuing a baccalaureate program at the University. Detailed information for each minor is listed in the catalog section of the college through which the minor is offered; check the index for the specific location.

OR4903	African American Studies	OR5212	Greek
OR4252	Anthropology	OR5305	Hearing, Speech and Language Sciences
ORARTM	Art	OR4211	History
ORASTR	Astronomy	ORIART	Interdisciplinary Arts
OR6360	Basic and Applied Nutrition	ORJAPN	Japanese
OR2121	Biological Sciences	OR5211	Latin
ORBSAD	Business	OR5290	Linguistics
OR3311	Chemistry	OR3101	Mathematics
OR5214	Classical Civilization	OR4233	Meteorology
ORCOMS	Communication Studies	ORMUSI	Music
OR5151	Dance	OR5241	Philosophy
ORDNCH	Dance: History and Theory	OR3331	Physics
ORDNCS	Dance: Somatic Studies	OR2111	Plant Biology
OR4221	Economics	OR4201	Political Science
OR5231	English	OR4101	Psychology
OR6260	Environmental Health Sciences	OR8109	Recreation
ORFILM	Film	OR6380	Retail Merchandising
OR5221	French	OR5224	Russian
OR4231	Geography	OR6602	Social Services
OR3321	Geological Sciences	OR4251	Sociology
OR5222	German	OR5225	Spanish
		ORTCOM	Telecommunications
		ORTHAR	Theater
		OR5215	World Religions

Certificate Programs

The certificate programs listed here are open to all students pursuing baccalaureate programs at the University, regardless of college or major. The equivalent of minors, these interdisciplinary programs can complement your major, broaden your career possibilities, or allow you to study an area of interest from a variety of perspectives. You will be awarded the certificate and receive official recognition on your transcript when you graduate. Please note that these certificate programs are not related to teaching or other professional certification conferred by outside agencies. To enroll in a program, contact the College or address noted below for a form or application. Your own College will enter your certificate information into your record.

East Asian Studies

The East Asian Studies Certificate provides students with an appreciation of China, Japan, and Korea and the role this vital region plays in the changing world politics. To ensure a broad understanding of East Asia, the interdisciplinary approach to meeting requirements includes courses in art, business, film, geography, history, journalism, linguistics, political science, sociology, and languages. With the increasing expansion of American businesses to East Asian nations and East Asian-based businesses to the United States, a sound knowledge about East Asia may enhance your undergraduate degree and lead to career or graduate school opportunities.

You can earn the East Asian Studies Certificate by completing the beginning and intermediate levels (or higher, with demonstrated ability) of an East Asian language and an additional 32 hours, including an introductory course, and at least 6 additional courses from a wide array of academic disciplines offered by the Colleges of Arts and Sciences, Fine Arts, Business, and Communication.

For more information and a list of approved courses, see the complete program description in the College of Arts and Sciences section.

Environmental Studies

The field of environmental studies encompasses the complex interactions among humans, other organisms, and the biophysical environment. The Environmental Studies Certificate Program is offered by the College of Arts and Sciences for students who want to gain knowledge and understanding about the interdisciplinary field of environmental studies.

You can earn a certificate in environmental studies by completing 32–35 hours that include required introductory and ecology courses and approved selections from the areas of quantitative skills, natural sciences, and social sciences. Many certificate courses satisfy both Tier and Arts and Sciences requirements. Further, courses taken as part of an Arts and Sciences major will also count toward fulfilling the certificate.

For additional information and a list of approved courses, see the complete program description in the Arts and Sciences section.

Geographic Systems

Maps remain a fundamental means of geographic communication, and the expanding role of the map and related digital information places a premium on the ability to interpret and analyze mapped information. To meet this expanding role, the advancement of Geographic Information Science (GIS) is seen as the important synthesis of traditional mapping with the more advanced tools of data modeling and analysis. In addition to core GIS and cartography courses, the undergraduate certificate in GIS requires students to complete a rigorous set of interdisciplinary courses, including statistics, computer applications, programming, database management, and a capstone internship project. The certificate is open to all students (except geography majors). For more information and a complete list of courses, refer to the description of the GIS certificate under Geography in the College of Arts and sciences section of the catalog.

Gerontology

The College of Health and Human Services and the College of Arts and Sciences jointly sponsor the undergraduate Gerontology Certificate Program for students who want to gain knowledge and skills for a career that involves working with the elderly. Traditional aging-related content, and the global impact of aging are linked with program initiatives that enable students to appreciate how this growing population affects their own area of study. Health care, social services, recreation, mental health, education, administration, and business are examples of service areas that now employ large numbers of persons working with and for the aging population. You can earn the certificate by completing at least 28 credit hours of selected coursework, including an approved practicum, field experience, or internship.

For additional information and a list of approved courses, see the complete program description in the Health and Human Services section.

Global Leadership Center

The Global Leadership Center (GLC) is an innovative, two-year program that prepares students for leadership opportunities in a rapidly changing world. Open to all majors, the GLC brings together the resources of the colleges of Communication, Arts and Sciences, and Business in an interdisciplinary, 30 quarter-hour program on global issues, with a strong emphasis on real-world projects and problem-solving skills.

GLC courses are not traditional classes with lectures, tests, and papers. Instead, students work in project teams on global problems and issues. Students enter the GLC in fall quarter of their sophomore or second year, and spend that year in residence in Bromley Hall, a private residence hall near campus. The junior year is non-residential. Each GLC student completes at least two international and cross-cultural projects.

For additional information, see the complete program description in the Scripps College of Communication section or visit the GLC Web site: <http://www.ohio.edu/glc/>.

International Studies

The Center for International Studies offers certificates in African, Asian, European, and Latin American Studies for students who wish to add an international dimension to their program of study, as well as for those interested in international careers or who are planning graduate work in area studies.

Earning the certificate involves completing seven to nine approved courses relating to the area of study—including language courses, in some cases—with an overall g.p.a. of 2.5 in courses taken toward the certificate.

For additional information, see the complete program description in the Arts and Sciences section.

Italian Studies

The aim of the Italian Studies Certificate is to provide students with the opportunity to enter into the study of the rich and varied culture of Italy through an interdisciplinary and complementary approach. Courses offered by the Colleges of Arts and Sciences and Fine Arts include the core study of the Italian language, both written and spoken, along with 24 credit hours from courses in art history, Italian literature, history, classical archeology, and classics. The result is a knowledge base that provides both depth and scope, a true enhancement to any undergraduate degree program.

For more information about the certificate and a list of approved courses, see the complete program description in the Arts and Sciences Section.

Political Communication

The College of Arts and Sciences and the Scripps College of Communication jointly sponsor a certificate in political communication for students who wish to supplement their major with an inquiry into the area of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their efforts to persuade and influence political outcomes.

To receive a certificate in political communication, you must complete two introductory courses and an additional 22 quarter hours of approved coursework.

For additional information and a list of approved courses, see the complete program description in the Scripps College of Communication section.

Sales

The College of Business through The Sales Centre at Ohio University sponsors the undergraduate Sales Certificate Program for students who want to develop knowledge and skills in professional selling. There are currently five options in the Sales Certificate Program—the Sales Certificate with a Professional Focus, the Sales Certificate with a Retail Focus, the Sales Certificate with a Media Focus, the Sales Certificate with a Financial Services Focus, and the Sales Certificate with a Sport Management Focus. Admission into the Sales Certificate Program is competitive, and space is limited. Students accepted into the program can earn a Sales Certificate by completing the approved coursework and a sales internship, a total of 28 hours.

For further information, a list of approved courses, and an explanation of competitive entrance requirements, see the complete program description in the College of Business section.

Women's Studies

Students in any major may earn the Women's Studies Certificate by completing four required Women's Studies courses and an additional 14 quarter hours of approved coursework.

For additional information and a list of approved courses, see the complete program description in the Arts and Sciences section.

College of Arts and Sciences

<http://www.cas.ohiou.edu/>

Wilson Hall, College Green

Benjamin Ogles
Dean

Maureen Weissenrieder
Associate Dean

Caryn Asleson
Assistant Dean for Student Affairs

Karen Dahn
Assistant to the Dean for Student Affairs

In 1804, a small group of young men arrived at the first seat of higher learning in the Old Northwest Territory to enroll for instruction in Greek and Latin, history, literature, mathematics, geometry, and physics. Then, as now, the best preparation for helping students meet the challenges of an unknown future was to offer a wide range of courses—a breadth of knowledge. Providentially, the founders had chosen to use a liberal arts model of connecting past to future through classic instruction. And so it was, with a tradition rooted firmly in the liberal arts, the fledgling college at the edge of the wilderness matured into the prestigious and many faceted institution we know today as Ohio University.

The College of Arts and Sciences at Ohio University is proud to continue the tradition of providing a wide choice of traditional majors to discerning students, even as it offers an expanded and modern curricula, with both appropriate to a 21st century education. In addition to teaching specific knowledge and essential skills in tune with an ever changing world of work and technology, the underlying philosophy of an arts and sciences curricula promotes the love of lifelong learning.

The objectives of a liberal arts education, historically speaking, have been met through curricula that provide a fuller understanding of the human condition and the world around us, falling as they do, within the academic disciplines known as the humanities, social sciences, and natural sciences. It is the nature of courses such as these to reflect a breadth and scope from both the past and the future. Fortunately, for students enrolled in the College of Arts and Sciences, they are the core of a modern liberal arts education.

In addition to a fundamental education acquired through instruction in the social sciences, natural sciences, foreign languages and other humanities, you will receive specialized knowledge in a major field of study that is likely to include a wide range of course options. Whether you pursue a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree, and whether you reach particular educational or career objectives with a “special curricula” major, or go with a time-honored “traditional” major, an Arts and Sciences degree is all about choice.

A significant number of students elect to finish two majors or two degrees for optimum use of their undergraduate years, while others add value by completing a minor or certificate program from the dozens offered. In addition, many departments in Arts and Sciences provide the opportunity for junior or senior level students who maintain a 3.50 g.p.a. to write a thesis and graduate with departmental honors. If you have not settled on a major before coming to the University, but are considering a major in Arts and Sciences, you are invited to apply as undeclared or “undecided” in Arts and Sciences.

The College of Arts and Sciences holds the distinction of being the largest and oldest college at Ohio University, yet to meet the needs of students, it is ever changing. For example, an exciting array of language and culture classes attracts students from all majors—time honored choices of Latin, Greek, French, German, and Spanish are available at beginning, intermediate, and advanced levels; but you may want to consider Russian, Italian, Japanese, Chinese, Swahili, or Arabic, instead of, or in addition to, more familiar languages. Another way to optimize the liberal arts experience is to participate in one or more of the incredible study abroad options in locations around the world.

Comprising 21 departments, the College of Arts and Sciences supports 32 “traditional” majors, nearly 50 special curricula majors with a specific career-related focus, the undeclared (“undecided”) option, 29 minors, and 7 certificate programs. College and departmental requirements for the B.A. and B.S. degrees are described in detail on the following pages, and in the Majors, Minors, and Certificate Programs section.

Departments

The College of Arts and Sciences comprises the following 20 academic departments:

African American Studies
Biological Sciences
Chemistry and Biochemistry
Classics and World Religions
Economics
English
Environmental and Plant Biology
Geography
Geological Sciences
History
Linguistics
Mathematics
Modern Languages
Philosophy
Physics and Astronomy
Political Science
Psychology
Social Work
Sociology and Anthropology
Women's Studies

The College also includes the following six programs:

Master of Public Administration Program
Master of Environmental Studies Program

Master of Social Studies Program
Ohio Program of Intensive English (OPIE)
Ph.D. in Molecular and Cellular Biology Program

Departments offering master's programs are Economics, Geography, Geological Sciences, Linguistics, Modern Languages, Philosophy, Political Science, Social Work, and Sociology and Anthropology. Master's and doctoral programs are offered by the Departments of Biological Sciences, Chemistry and Biochemistry, English, Environmental and Plant Biology, History, Mathematics, Physics and Astronomy, and Psychology. Further information about the advanced degree programs can be found in the *Ohio University Graduate Catalog*.

Office of Student Affairs

The College of Arts and Sciences Office of Student Affairs assists students with academic concerns, such as advising and career choices, or change of major, as well as overseeing administrative matters related to academic progress, academic suspension, reinstatement, and graduation conferral. The office is located in Wilson Hall, suite 104, on the College Green and information is available on the Web at <http://www.cas.ohiou.edu/undergrad/>.

Degrees, Majors, Minors, and Certificates

The College offers two four-year degrees: the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.). The B.A. and B.S. degree programs differ in the language requirements (see "Foreign Language Requirements") and in specific major course requirements as established by the department. Regardless of major, all Arts and Sciences degree students must meet basic, consistent requirements, including a minimum core program of no less than 36 quarter hours, with 16 hours at the 300-400 level. At least 50 percent of the major course credits must be completed at Ohio University to satisfy the residency policy of the University. For most majors, the B.A. or B.S. designation is determined by the program itself and is not subject to student inclination.

B.A. Degree Programs

A major for the B.A. degree may be completed in the following areas. This list is in alphabetical order by department and includes both traditional majors and *special curricula* (in italics):

African American Studies
 African American Studies

Anthropology
 Anthropology

Chemistry and Biochemistry
 Chemistry
Environmental Chemistry
Predentistry
Premedicine

Classics and World Religions
 Classical Civilization
 Greek
 Greek and Latin
 Latin
 World Religions

Economics
 Economics
Pre-Foreign Service
Prelaw

English
 English
Creative Writing
Prelaw
Pretheology

Environmental and Plant Biology
 Plant Biology

Geography
 Geography
Urban and Regional Planning

Geological Sciences
 Geological Sciences

History
 History
Pre-Foreign Service
Prelaw
Pretheology

International Studies
pre-major status*
International Studies—Africa
International Studies—Asia
International Studies—Europe
International Studies—Latin America

Linguistics
 Linguistics

Mathematics
 Mathematics
Meteorology
Prep. for Actuarial Sciences
Prep. for Advanced Training

Modern Languages
 French
 German
 Russian
 Spanish

Philosophy
 Philosophy
Prelaw
Pretheology

Physics and Astronomy
 Physics

Political Science
 Political Science
Pre-Foreign Service
Prelaw
Public Administration

Psychology
 Psychology
Pre-Physical Therapy

Social Work
 Pre-Social Work*
 Social Work

Sociology
 Sociology
Criminology
Prelaw

Women's Studies

* Entry-level programs do not fulfill a degree and are intended as preparation for admission into a major or professional school or program.

B.S. Degree Programs

A major for the B.S. degree may be completed in the following areas. This list is in alphabetical order by department and includes both traditional majors and special curricula (in italics):

Biological Sciences
 Biological Sciences
Cellular and Molecular Biology
Marine, Freshwater, and Environmental Biology
Microbiology
Pre-Physical Therapy
Pre-Professional Program (predentistry, premedicine, pre-optometry, pre-veterinary medicine)
Wildlife and Conservation Biology

Chemistry and Biochemistry
 Chemistry
 Biochemistry
Environmental Chemistry
Forensic Chemistry
Predentistry
Premedicine
Prepharmacy

Environmental and Plant Biology
 Plant Biology
Cell Biology and Biotechnology
Environmental Biology
Applied Ecology

Geography
 Geography
Environmental Geography
Environmental Prelaw
Geographic Information Science
Meteorology
Urban and Regional Planning

Geological Sciences
 Geological Sciences
Environmental Geology

Mathematics
 Mathematics
Prep. for Actuarial Sciences
Prep. for Advanced Training
Applied Mathematics
Meteorology

Physics
 Physics
Applied Physics
Astrophysics
Meteorology

* The pre- status does not fulfill any degree and is intended as preparation for admission into the actual major.

Minors

If you wish to complete a formal minor in addition to your major, you may select a minor offered by the College of Arts and Sciences or choose one from another college. Minors available in the College of Arts and Sciences are:

African American Studies

Anthropology

Astronomy

Biological Sciences

Chemistry

Classical Civilization

Economics

English

French

Geography

Geological Sciences

German

Greek

History

Japanese

Latin

Linguistics

Mathematics

Meteorology

Philosophy

Physics

Plant Biology

Political Science

Psychology

Russian

Social Services

Sociology

Spanish

World Religions

Certificates

Certificates available in the College of Arts and Sciences can be a part of any major program offered by Ohio University. Detailed information is available in the Majors, Minors and Certificate Programs section that follows. Certificate programs include:

East Asian Studies

in cooperation with the Colleges of Business, Communication, and Fine Arts

Environmental Studies**Geographic Information Science (GIS)****Gerontology**

in cooperation with the College of Health and Human Services

International Studies—African, Asian, or Latin American**Italian Studies**

in cooperation with the College of Fine Arts

Political Communication

in cooperation with the College of Communication

Women's Studies

Certificate programs and minors are open to students in any program, regardless of college, except as restricted by that program or college.

Departmental Honors

Many departments in the College of Arts and Sciences offer outstanding students the opportunity through the writing of a thesis, to graduate with departmental honors. To be eligible to participate in an honors program in Arts and Sciences, you must maintain at least a 3.50 g.p.a. For specific information about honors recognition for your major, see your academic advisor before the end of your junior year.

Admission Requirements

Upon being admitted to Ohio University as a first-year student, you may declare any of the majors listed above to be enrolled in the College of Arts and Sciences.

Note: you may earn no more than 90 hours in the undecided category before you must declare a regular major.

Transfer from Other Colleges Within Ohio University

To transfer into the College of Arts and Sciences from another college within the University, you must declare a major in the College of Arts and Sciences and be in good academic standing. If you have earned 45 or more hours, you are not eligible to declare an undecided major in Arts and Sciences.

Courses taken to satisfy requirements in other colleges (e.g., MATH 120, HSS 378) will not necessarily fulfill requirements in the College of Arts and Sciences or in your new major.

As long as your g.p.a. is 2.0 or higher, you may apply to transfer to the College of Arts and Sciences at any time in the quarter. After the 14th day, the change will not become official until the following quarter.

Transfer from Other Universities

Applicants to the College of Arts and Sciences from other accredited collegiate institutions must first meet Ohio University's transfer specifications as outlined under "Transfer Applicant" in the Admissions section of the catalog. Transfer students may not declare an Undecided major in Arts and Sciences.

The College determines the transferability of credit from other institutions based upon whether the institution is accredited or a recognized candidate for accreditation. The College follows the recommendations of the American Association of Collegiate Registrars and Admissions Officers in recognizing transfer credit. For credit earned at foreign institutions and in other special cases, the College accepts the recommendations of the University Examiner in the Office of Admissions.

The College evaluates credits on a course-by-course basis, assigning an Ohio University course number whenever possible.

Technical credits for nonbaccalaureate-level courses (e.g., office management) are evaluated as technical electives. Although such credits do not meet any specific degree requirement, you may count up to 25 hours of technical credits toward total graduation hours. The benefit of technical credits applied to a degree program at Ohio University may be minimal. If you are currently enrolled in a two-year program with the intention of transferring to Ohio University, it is important to take as much college-level work as possible in areas such as humanities, social sciences, mathematics, and science to improve your chances of completing the four-year degree program within two to three additional years.

Students whose transfer credit is equated as comparable to Tier I level composition, or to quantitative courses, are considered to have met that Tier I requirement. Transfer students without comparable transfer credit in composition and/or quantitative courses must complete the requirement.

Student records sent to the Office of Admissions from other collegiate institutions rarely include high school transcripts. Students transferring to Ohio University and the College of Arts and Sciences should order a high school transcript to be sent directly to the Office of Student Affairs, College of Arts and Sciences, so that your language placement can be determined.

To fulfill University residency requirements, you are required to complete at least 50 percent of your major concentration at Ohio University, with a minimum of 12 hours at the 300 level or above, and earn a minimum of 48 total hours in residence. If you have a double major, you will need to complete at least 50 percent of work in each major at Ohio University, with a minimum of 9 hours at the 300 level or above in each of the two departments. Additionally, you must maintain a 2.0 g.p.a. Courses should be approved by the respective departments.

To fulfill a minor in Arts and Sciences, you must complete a minimum of 8 hours of coursework at Ohio University at the 300-400 level with a grade of 2.0 or above.

Foreign Language Requirement for Transfer Students

The College of Arts and Sciences requires that all candidates for a B.A. or B.S. degree successfully complete two years of foreign language at the college level, or the equivalent. The table below explains how transfer credit for foreign language courses is evaluated. (For more information about foreign language, see Foreign Language Requirement and Language Placement Table under College Requirements.)

Note that the type of degree (B.A. or B.S.) determines how the two-year requirement will be satisfied. These requirements are determined by the degree program.

Foreign Language Requirement for Transfer Students

SEMESTER HOURS:

A. The B.A. degree requires 24 quarter hours (2 years) of one foreign language. Students who have completed 16 semester hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will receive credit for 24 quarter hours (2 years of instruction) and fulfill their foreign language requirement.

B. Students who have completed 8 semester hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will receive credit for 12 quarter hours and would fulfill one year of their foreign language requirement..

C. Students who have completed 6 semester hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will receive credit for 9 quarter hours and need to make up 3 quarter hours to complete one year of foreign language as required by the degree program.

QUARTER HOURS

The B.A. degree requires 24 quarter hours (2 years) of one foreign language.

A. Transfer students who have completed 24 quarter hours of one foreign language will receive credit (contingent upon the courses being equivalent in content (as determined by the College) for 2 years of instruction and would fulfill their foreign language requirement.

B. Students who have completed 12 quarter hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will fulfill one year of their foreign language requirement.

C. Students who have completed 9 quarter hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), would need to take an additional 3 quarter hours at Ohio University to fulfill one year of foreign language. **FURTHER:**

D. If you are transferring 9 quarter hours of language credits, you must complete your foreign language requirement by doing the following:

- a. Take the language placement test in Spanish, German, or French, offered by the Department of Modern Languages. For other

languages, contact Modern Languages Department to arrange a placement test.

b. If your placement score indicates an achievement level comparable to the 113 or 213 level of that language, you must complete either 113 or 213 at Ohio University.

c. If your placement score is above 113 or 213 of that language, the College will waive the deficient 3 credit hours and accept 9 credits as equivalent to 12 credits, to fulfill the first or second year series. (Transfer credits maintain their 3 hour credit value.)

College Requirements

If you are in Arts and Sciences you are expected to become familiar with this section of the catalog which relates specifically to College requirements. You also need to read the Guidelines and General Information section at the front of the catalog. These pages contain information essential to your being a well informed student at Ohio University. It should be noted here that you are responsible for understanding and meeting all requirements designated for your degree program.

The following list outlines the Arts and Sciences degree information presented in the sections that follow:

Advising
Academic Probation
Degree Requirements (B.A., B.S.)
Second Bachelor's Degree
Degree in Absentia
Major Requirements
Double Major
Minor Requirements
General Education Requirement
Foreign Language Requirement
Humanities Area Requirement
Social Sciences Area Requirement
Natural Sciences Area Requirement
Level of Study Requirement
Single Application of Credit
Credit, Noncredit, and Pass/Fail Credit
Transient Study
Teacher Licensure
Education Abroad

Advising

All departments in the College of Arts and Sciences provide a designated undergraduate advising coordinator who oversees advising procedures within that department. Every student in the College of Arts and Sciences is assigned an advisor, including undeclared ("undecided") students. It is expected that you will schedule a conference during the pre-registration period each quarter. For students with declared majors, your advisor is a faculty member in the department of your

major. For undecided majors, an advisor is assigned from Arts and Sciences faculty and administrative staff.

While advising conferences are particularly encouraged during the registration period, it is recommended that you maintain regular contact for assistance with concerns related to academic and career planning. Any requests by students to deviate from stated major requirements must be communicated in writing by the department chair or the undergraduate advising chair to the College Student Affairs office. While your advisor is expected to assist with course choices and recommendations, it is **your responsibility to see that your own program requirements are met.** If you have questions about fulfilling requirements you are invited to seek help at the College Office of Student Affairs in Wilson Hall.

To change majors, contact the Office of Student Affairs in Wilson Hall. A new advisor will be assigned. All other matters pertaining to advisors are administered by Advising Coordinators or the departmental offices.

Academic Probation

If at the time of review you do not have the required 2.0 accumulative g.p.a., you will be placed on academic probation and are required to complete an Academic Success workshop. The session is mandatory and is intended to help you improve your academic performance and return to good standing as quickly as possible. Information about the workshop will be sent to your Oak e-mail account.

Degree Requirements for Bachelor of Arts (B.A.) and Bachelor of Science (B.S.)

General requirements for a B.A. or B.S. are (a) a minimum of 192 quarter hours, including (b) 90 hours of Arts and Sciences coursework above the 199 level; (c) the equivalent of two years of college-level foreign language; (d) at least 18 hours each of humanities, social sciences, and natural sciences coursework; (e) General Education Requirements—Tiers I, II, III—and (f) all requirements stipulated by the department for the chosen major. Minors are optional.

A minimum of 192 quarter hours of credit is required for either a B.A. or B.S. degree. Policy does not allow an accumulation of more than 72 hours in any one major for a B.A. and no more than 80 hours in one major for a B.S., without a penalty against the total hours to graduate. Any hours earned in excess of the stated maximum for the major will necessitate earning equivalent credit hours over 192.

To receive a degree from the College of Arts and Sciences, you must have a minimum 2.0 g.p.a. on all of the following:

- 1 all hours attempted at the college level
- 2 all hours attempted at the college level in the major

- 3 all hours attempted at Ohio University
- 4 all hours attempted at Ohio University in the major.

The graduation g.p.a. is computed after deductions for repeated and noncredit courses have been made. See the "Credit and Grading" section for information on repeated course removal.

Graduation requirements are defined by your catalog of entry and remain in effect for five years from your date of admission to Ohio University. An average course load of 16 hours a quarter is necessary to graduate in four years. Five years after entry, graduation requirements become redefined by the current Catalog.

For specific information involving graduation requirements, including residence requirements (i.e., the minimum number of credit hours that you must complete at Ohio University), see the "Graduation Requirements—University Wide" section of the Catalog.

Second (Double) Bachelor's Degree

The College of Arts and Sciences awards a B.A. or B.S. only once, regardless of the number of majors completed with that degree designation (e.g., one B.A. degree for double majors in women's studies and African American Studies). Consequently, one diploma is issued per degree. In the case of the dual degree comprising a B.A. and B.S. (e.g., Spanish and Biological Sciences) or one B.A. or one B.S., and a second degree earned in a different college (e.g., College of Arts and Sciences and College of Health and Human Services), two degrees are conferred and two diplomas are awarded.

University policy requires the completion of a **minimum of 208 quarter hours for the second or dual degree** (i.e., an additional 16 hours beyond the 192 required for the first degree), including all specific requirements for both degree programs. For the guidelines to earning a second or dual bachelor's degree, refer to the Graduation Requirements section.

Degree in *Absentia*

To be eligible for in *absentia* privileges, you must first be *enrolled* in one of the programs listed in item 5 below. To earn a degree in *absentia*, you must have:

- 1 completed 144 quarter hours at Ohio University, including specific requirements for the chosen program
- 2 earned a g.p.a. of 2.0 or better on all work attempted and on all work in the major
- 3 completed all General Education Requirements
- 4 completed all college distribution area requirements, except the 200-level requirement, of which 45 hours must be complete
- 5 completed a full year's work in an accredited school of dentistry, law,

clinical laboratory science, medicine, optometry, physical therapy, or veterinary medicine

- 6 been advanced without condition to the second year of training when the professional school's program is for two or more years
- 7 successfully completed the professional program specified.

For the clinical laboratory science program, you must receive the approval of the clinical laboratory science advisor. For any other in *absentia* programs, you must secure a statement from the dean of the College before you enter the professional school granting the degree in *absentia* privilege.

Major Requirements

If you are a first-year student in the College of Arts and Sciences, you may enroll in the College as an undecided major; you must declare a major at or before you have earned 90 hours. If you have earned 45 or more credit hours from Ohio University, you are ineligible to transfer into the College as an undecided major. Transfer students from other universities may not enroll as undecided in Arts and Sciences.

College policy requires that any major program consist of a minimum core of 36 quarter hours in one subject area, including 16 quarter hours to be taken at the 300–400 level. Most majors require more than 36 hours and there may be specific departmental requirements, such as minimum g.p.a. for core coursework. Methods courses for certification in education are not included in hours that apply to the major. Whether you have chosen a traditional or a special curriculum major, you are obligated to fulfill the requirements specified by the department of major which, at minimum, requires a 2.0 g.p.a. and at least 50 percent of the major concentration from Ohio University, with no fewer than 12 of those hours at the 300 level or above. No courses in any major (except extra-departmental requirements, e.g. chemistry for a biological sciences major) may be applied to the area distribution requirements.

A second major or second degree program allows an exception to the rule stated above. In the case of a single major, courses used to fulfill that major cannot be used for area requirements. However, courses used to complete a second major may also fulfill the Arts and Sciences distribution areas.

B.A. degree candidates may count a maximum of 72 hours in one subject towards the degree; B.S. candidates may count a maximum of 80 hours. Exceeding this maximum requires increasing total hours to graduate to match the excess major hours. All courses in the major numbered above 199 are applied to the 90-hours-above-200-level requirement.

To earn a major in an Arts and Sciences discipline, you must be enrolled in the College of Arts and Sciences (except for economics majors, who may be enrolled in either the College of Arts and Sciences or the College of Business). If you are a student in another college at Ohio University, you may enroll concurrently or consecutively in Arts and Sciences.

Double Major

For a degree to be granted, you must complete at least one major. A second major (or more), an option that any Arts and Sciences student may pursue, requires that all requirements for each major as described in the Majors, Minors, and Certificate Programs section, be fulfilled. You will need to complete at least 50% of the credit hours in each major at Ohio University, including a minimum of 9 hours at the 300 level or above in each of the two departments, while maintaining a 2.0 g.p.a. in each major.

Courses in the second major, including extra-departmental requirements, may be applied to the area distribution requirements. Completing more than one major program for the same degree program will not, of itself, increase the minimum hours required for Arts and Sciences areas or the 192 hours to graduate.

Minor Requirements

Arts and Sciences students interested in completing a formal minor may choose from the 29 minors offered by the College of Arts and Sciences or select a minor offered by another college. You must declare the minor and fulfill all hour and course requirements for it to be conferred and noted on your Ohio University transcript. The minor will not show on the transcript until a degree is conferred.

University policy stipulates that a minor comprise 24 to 35 required hours, including at least two courses at the 300–400 level. In the case of foreign languages, the minimum requirement is 24 hours beyond the 213 level. English courses fulfilling Tier I composition requirements do not count toward an English minor. To fulfill a minor in Arts and Sciences, you must complete a minimum of 8 hours of coursework at Ohio University at the 300–400 level with a grade of 2.0 or above. Within these limits, the distribution of courses, as well as other specific requirements, are determined by the department. At minimum, a 2.0 g.p.a. is required. In cases where extra departmental courses required to fulfill your major either nearly or completely duplicate courses for your chosen minor, declaring that minor may not be acceptable. See the Majors, Minors, and Certificate Programs section for specific minor requirements.

General Education Requirement

The University General Education Requirements (Tiers I, II, and III) are similar to, but lesser in scale than, the Arts and Sciences requirements. You can select

courses that, while fulfilling University General Education Requirements, can partially satisfy Arts and Sciences distribution requirements in foreign languages, humanities, social sciences, natural sciences, and courses above the 199 level. The following lists for humanities, social sciences, and natural sciences indicate specifically and without exception the courses that fulfill the three Arts and Sciences areas. Many of these courses also satisfy Tier II requirements.

All courses that fulfill General Education Requirements, even if they are not Arts and Sciences courses, apply toward the 192 credit hours needed to graduate from Ohio University.

Some courses designated for Tier I quantitative skills and freshman composition (including any skills courses needed as prerequisites) apply only to hours for graduation and do not apply to Arts and Sciences distribution requirements. MATH 163A-B and PSY 221 may fulfill multiple requirements.

Arts and Sciences courses that fulfill the Tier I advanced composition requirement at the junior level can apply to the Humanities distribution area and, in certain cases, to your major.

Courses designated as Tier III do not fulfill Arts and Sciences requirements except when they are taught by Arts and Sciences faculty. In this case, the course contributes to the hours-above-200-level requirement. Courses designated as "Tier III alternatives" may count both for Tier III and towards the major.

Transfer students whose credit is equated as comparable to Tier I level composition, or to quantitative courses, are considered to have met that Tier I requirement. Transfer students without comparable transfer credit in composition and/or quantitative courses must complete the requirement.

Foreign Language Requirement

The College of Arts and Sciences requires that all candidates for a B.A. or B.S. degree successfully complete two years of foreign language equivalent to or at the college level. The type of degree (B.A. or B.S.) determines how the two-year requirement is completed. These requirements are determined by the degree program, i.e., B.A. or B.S. (Transfer students should refer to the "Transfer from Other Universities" section for specific information about transferring foreign language credits to Arts and Sciences.)

Not all language courses taught at Ohio University meet the curricular guidelines of the foreign language requirement. Acceptable languages include: Arabic, Chinese, Indonesian/Malaysian, Japanese, and Swahili (African and Asian); Greek and Latin (classical);

German (Germanic); French, Italian, and Spanish (Romance); and Russian (Slavic). The first or beginning year of language at Ohio University is represented by the course numbers 111, 112, and 113, while the second or intermediate year is represented by the course numbers 211, 212, and 213. (See "Foreign Languages and Literature" in the Courses of Instruction section for a complete description of language courses.)

Language Placement Table

The language placement table below represents the broadest interpretation of the language requirement and therefore applies more specifically to the

B.A. degree. If your major is designated B.S., use the table as a guide to determine if you qualify for the options described in the Candidates for the B.S. Degree section following the table.

The language placement table represents two years of high school language as being equal to one year of college language. The study of a foreign language at Ohio University must begin according to the recommendations listed below. If you have completed two or more years of high school language, these recommendations assume there has been thorough foreign language preparation within the last year. If this is not the case, you are strongly advised to enroll first in a lower level course as preparation to enter the intermediate level.* A placement exam is available to evaluate your competency in French, German and Spanish. Enrolling at a level higher than indicated by the table and your high school experience is not permitted.

Students wanting to enroll in a higher level foreign language course than indicated by the table need to contact the Assistant Dean in the College of Arts and Sciences to discuss options:

Years of language in high school	Begin college language at
0-1 year	Course 111
2-3 years	Course 211
4-5 years	Course 213 or 341 (Latin 351)

* If you find it necessary to repeat high school-level work (111-113) to prepare for the intermediate level, these credits will be applied to the 192-hour graduation requirement, but do not fulfill any part of the language requirement. Once the language requirement is completed, any foreign language course that does not duplicate coursework for the requirement or high school work will be applied to the humanities distribution area.

B.A. Degree Options

The foreign language requirement for B.A. degree candidates is the successful completion of a two-year sequence of study of one language from level 111 through level 213.

Two years of high school language are considered the equivalent of one year of college language. According to your preference, however, your two years of college-level study may be a language other than the one studied in high school.

For the B.A.:

Zero to one year of high school language must complete two years of one foreign language at the college level.

Two to three years of one high school language must complete the intermediate level (i.e., second year) 211-213, of the same language or, if you prefer, two years (111-213) of a language different from the one studied in high school.

Four or more years of one high school foreign language must complete level 213 or 341 or higher in the same language.

Four years of high school Latin may complete LAT 351 rather than LAT 213. LAT 351 is recommended.

B.S. Degree Language Options

If you are earning a B.S. degree, you must meet the foreign language requirement through two years of college language study or the equivalent. This policy allows for several interpretations.

For the B.S.

Zero to one year of high school language must choose to complete a full sequence in one language (two years—6 quarters, 111-213) or one year each (3 quarters for each) of two different languages of beginning level (111-113; 111-113).

Two to three years of high school language must choose either to complete the intermediate level of the same high school language (211-213) or complete the beginning year of a second language (111-113).

Four or more years of high school language (that includes either four years of one language or two years each of two different languages), may consider the language requirement met.

Choice of Degree Options

For the limited number of majors that offer a choice of either the B.A. or B.S. degree (see listings in the Majors, Minors, and Certificate Programs section), you may choose which degree to pursue. Be certain to select the appropriate language requirement. See above section for the respective B.A. or B.S. language requirements.

Transfer Students

Please refer to the "Transfer from Other Universities" section for specific information about the transfer of foreign language credits.

International Students

For international students whose first or native language is not English, and who completed high school where the first or native language was the one primarily used for instruction, the foreign

language requirement may be satisfied by demonstrating competence in English. This must be approved by the Assistant Dean in the College of Arts and Sciences, and generally requires the successful completion of at least one or more courses in English as a foreign language, specifically ENG 151 and or ENG 305J or 308J.

You may also satisfy the foreign language requirement by taking a foreign language at Ohio University other than your own first language or by successfully completing the NYU foreign language exam.

Enrollment in the beginning or intermediate level (under 300) of your own first language(s) will be considered a noncredit course.

Humanities Area Requirement*

The humanities requirement may be met by selecting 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a African American Studies 106, 110, 150, 210, 211, 250, 310, 317, 350, 352, 353, 355, 356
- b Art History
- c Classical Archaeology **except** 211, 212, 213
- d Classics in English
- e Communication Studies 351, 352, 353
- f Dance 170, 351, 352, 353, 370, 471, 472, 473
- g English **except** 150, 151, 152, 153, 153A, 153B, 451, 452
- h Foreign language courses other than those used to complete the foreign language requirement and **except** JPN 341
- i History 121, 122, 123, 314A-G, 328, 328A, 329A-C, 330, 331, 350A, 351, 352, 353A-C, 354A-B, 3548, 356A-C, 357, 360A-B, 370, 389
- j Humanities 107, 108, 109, 117, 307, 308, 309
- k Interdisciplinary Arts
- l International Literatures in English-International Literature: Linguistics and International Literature: Modern Languages
- m Modern Languages 370J
- n Music / Music Literature 120, 124, 125, 150, 321-3, 427, 428
- o Philosophy **except** 120
- p Theater 150, 270, 271, 272
- q University Professor 150-152H, 450-452H
- r Women's Studies **except** 360
- s World Religions

Social Sciences Area Requirement*

The social sciences requirement may be met by a selection of 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a African American Studies 101, 202, 220, 225, 254, 340, 341, 345, 346, 360, 368, 440, 482
 - b Anthropology **except** 201, 346, 355, 447, 448, 492, 496
 - c Business Law 255, 442, and 475
 - d Classical Archaeology 211, 212, 213
 - e Economics
 - f Geography **except** those listed under natural sciences (see below)
 - g History **except** those listed under humanities (see above)
 - h International Studies 103, 113, 118, 121
 - i Japanese 341
 - j Linguistics
 - k Political Science
 - l Psychology **except** 120, 221, 226, 312, 314, 321
 - m Social Work
 - n Sociology
 - o University Professor 150-152S, 450-452S
 - p Women's Studies 360
- Natural Sciences Area Requirement***
- The natural sciences requirement may be met by selecting 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:
- a Anthropology 201, 346, 355, 447, 448, 492, 496
 - b Astronomy
 - c Biological Sciences **except** 217
 - d Chemistry **except** 115
 - e Computer Science **except** 120, 135, 190, 220, 350
 - f Environmental and Plant Biology **except** 217
 - g Geography 101, 202, 302, 303, 304, 305, 315, 316, 358, 406, 407, 411, 417, 418, 476
 - h Geological Sciences
 - i Mathematics **except** 101, 102, 109, 113, 115, 117, 118, 120, 121, 122, 320, 320L
 - j Physical Sciences
 - k Psychology 221, 226, 312, 314
 - l Physics
 - m University Professor 150-152N, 450-452N

Note: Methods courses are not applicable to area requirements.

* These listings must be used as the official guide for the completion of the Arts and

Sciences area (distribution) requirements. Exceptions to the 18-hour Arts and Sciences area distribution requirements will be made only under the most unusual of circumstances and by petition only. Consideration for inclusion of courses not listed is not made on an *ad hoc* basis but requires formal approval of the Arts and Sciences Curriculum Committee.

Some courses from these categories may also be applied to the University Tier II requirements. However, the three Arts and Sciences area categories differ in scope from the five Tier II groupings (Humanities and Fine Arts, Natural Sciences and Mathematics, Social Sciences, and Cross-Cultural Perspectives). If you wish to select a course that will apply to both the Arts and Sciences and Tier II requirements, take care to choose a course that has been approved for the desired category in both the College and the University listings. (The list of courses approved for Tier II categories appears in the Graduation Requirements section of the catalog.) Most courses that can fulfill Tier I quantitative skills and freshman composition requirements and the Tier III requirement do not apply to the Arts and Sciences area distribution requirements. Exceptions include MATH 163A, 163B, and PSY 221.

Level of Study Requirement

(Hours at the 200 level or above)

Within the total hours applied to the degree, at least 90 quarter hours of Arts and Sciences courses must be above the freshman level (numbered above 199). Arts and Sciences courses are defined as courses listed earlier in this section under humanities, social sciences, and natural sciences, and include foreign languages, courses from the department major, and courses taught by faculty in the College of Arts and Sciences intended to meet the junior composition or Tier III requirement. University Professor (UP) courses taught by Arts and Science faculty will count only if they are listed as applicable to any of the three area requirements.

Economics majors may apply QBA 201 and, with departmental approval, other advanced courses in statistics, to the Arts and Sciences 200-level requirement for a maximum of 15 hours.

Non-Arts and Sciences courses are almost always considered electives and not counted toward the level of study requirement. Rather, they apply toward the 192-hour requirement for graduation.

Single Application of Credit and Exceptions

Excluding the exceptions listed below, no course may satisfy more than one of the area requirements in foreign language, humanities, social sciences, or the major requirement. For example, a philosophy major may not apply any courses in philosophy toward the humanities requirement. Courses that fulfill freshman General Education Tier I requirements or Tier III will not apply to the distribution area requirement.

Exceptions are: MATH 163A, 163B, and PSY 221 (will fulfill the Tier I quantitative

requirement, as well as the natural science area).

Courses required for a major, but outside the major department (extra-departmental) will be counted toward the area requirements, except in the case of interdisciplinary majors (i.e., international studies, classical studies) where required courses normally may not be applied to the distribution areas.

Courses required for a minor will be counted toward the area requirements, except for non-Arts and Sciences minors. Foreign language courses at the beginning and intermediate levels for students majoring in that foreign language fulfill the language requirement since the major is defined as including language courses above the intermediate level only.

Junior-level advanced composition courses offered by departments within the College of Arts and Sciences apply to the distribution area requirements except when they are required for the major (e.g. ENG 307J, HIST 301J, or Tier III equivalents)

Hours of Credit (CR), Pass/Fail Courses, and Noncredit Allowed

Credit (CR) Hours

Hours of coursework that are offered for credit (CR) may be applied toward requirements, but are limited to 15 hours total. (Do not confuse credit (CR) with pass/fail (P/F).)

Pass/Fail Hours

Courses taken pass/fail are limited strictly to electives hours, or that fulfill hours to graduate, and may total no more than 20 hours. No course taken pass/fail may fulfill any requirement, except the total-hours requirement. For an Arts and Sciences student, this policy effectively restricts taking any pass/fail course within the areas of foreign language, humanities, social sciences, natural sciences, major, minor, 90-hours-above-200, and special curriculum requirements, unless that area is completed, as required.

See the Pass/Fail section in the Credit and Grading section of the catalog for further information.

Noncredit Hours

Noncredit courses do not count toward the 192-hour requirement. Noncredit courses are those numbered below 100; courses completed out of sequence, i.e., a lower-level course taken after completing an advanced course in the same academic department; certain technology courses; developmental courses (e.g., ENG 150, MATH 101) in excess of 8 credit hours; skills courses such as UC 110 and 112 in excess of the eight-hour limit; credits duplicated by the repetition of coursework; and courses taken for audit. See the Guidelines and General Information section for details about

credit and grading, repeated courses, and residence requirements that affect hours required.

Transient Study

Transient study is defined as earning credit hours at another institution for the purpose of fulfilling specific Ohio University or College of Arts and Sciences requirements. (Transfer study refers to credits transferred from another institution once students are admitted to Ohio University.) See "Transferring Credit" in the Admissions section.

If you are a senior and wish to earn credit by transient study, remember that you must complete 50 percent of your major, including at least 12 hours of 300–400 level work at Ohio University. Any minor must include 8 hours of courses at the 300–400 level and 50 percent of required coursework from Ohio University.

Before registering for courses at another institution to earn credit through transient study, you must secure permission from the College of Arts and Sciences. A visit to the Office of Student Affairs will determine beforehand the value of any intended courses to your progress toward graduation. You may need a catalog and/or course description from that institution in order to complete the petition form. Permission forms can be downloaded from the CAS Web site at <http://www.cas.ohiou.edu/undergrad/>. Keep in mind that while credits are transferable, grades are not. Your g.p.a. will not be affected by credit hours transferred from another school.

See major requirements section for information regarding Ohio University credits.

Teacher Licensure

Students in the College of Arts and Sciences may meet the requirements for licensure to teach at the secondary-school level by completing requirements for either the B.A. or the B.S. degree program and completing any necessary requirements through the College of Education. Information about requirements is available from department representatives in the College of Arts and Sciences. If you are interested in teaching, begin planning for your required courses as early as possible.

Education Abroad

Among the many study abroad opportunities offered by Ohio University are more than two dozen programs open to all majors sponsored by the College of Arts and Sciences, listed below. For additional information about education abroad, please refer to the "University-Wide Academic Opportunities" section. See also, Global Leadership Center. Be sure to inform your academic advisor and meet with staff in Education Abroad and the Office of Student Affairs in the College to discuss your plans. For

information on programs and on using your financial aid for study abroad, visit the Office of Education Abroad in Gordy Hall 107 or at <http://www.ohio.edu/studyabroad/>. All programs are subject to change.

Language Programs Abroad

Intensive French Abroad, Avignon, France, spring quarter; Intensive German Abroad, Salzburg, Austria, spring quarter; Intensive Spanish Abroad, Merida, Mexico, winter quarter; Intensive Spanish Abroad, Pamplona, Spain, fall, winter, spring, and/or summer; Spanish and Latin American Studies, Cuenca, Ecuador, spring quarter; Greek in Greece, Greece, spring quarter; Japanese Culture and Language Abroad, Chubu University, Nagoya, Japan, fall quarter, 6- and 9-month programs also available; Russian Study Abroad, Moscow, Russia, spring quarter. Further language learning opportunities include a summer intensive study of French in Quebec, an advanced French language and literature program in Martinique during winter intersession, a Spanish language and culture program in Puerto Rico during winter intersession, and a fall quarter of cultural studies in Malasia.

Student Exchange Programs

Odense University Exchange Program, Odense, Denmark, fall quarter or one academic year; Johannes Gutenberg University Exchange Program, Mainz, Germany, one academic year; University of Leipzig Exchange Program, Leipzig, Germany, one academic year; University of Newcastle, Newcastle, Australia, one semester or one academic year; University of Wales Exchange Program, Swansea, Great Britain, one academic year, or one semester; University of South Australia, Adelaide, Australia, one semester; Universidad Publica de Navarra, Pamplona, Spain, one semester or one academic year.

Other Arts and Sciences Programs

Global Studies in Plant Biology, various locations, winter intersession and summer; Ohio-Leipzig European Center (OLEC), Leipzig, Germany, spring and summer; Internship with the National Assembly for Wales, fall or spring semester; Classics in Rome, Italy, fall quarter; Ohio-Shandong (China) Center in East Asia, fall quarter; Tier III Bahamas: An Island as Environment, winter intersession; Tropical Disease Workshop and Research, Ecuador, summer; Galapagos Islands Natural History, Ecuador, summer. Linguistics, with Latin American Studies, offers coursework toward preparation for Teaching English as a Foreign Language, in Cuenca, Ecuador.

Majors, Minors, and Certificate Programs

This section outlines the specific requirements for every program in the College of Arts and Sciences: traditional majors, special curricula, minors, and certificate programs, so that you can investigate the full range of majors and degree options available in the college.

Special curricula are four-year degree programs structured to help you prepare for a specific application of your undergraduate program to a selected educational or career objective. To be recognized as having completed a special curriculum and to meet graduation requirements, you must complete the entire curriculum as listed, plus additional courses as necessary to reach a total of 192 hours and meet both University General Education Requirements and the Arts and Sciences degree requirements. Should you elect not to fulfill the special curriculum, you must complete all requirements for another major to graduate.

Majors are arranged alphabetically by department and are listed by complete name (e.g., Forensic Chemistry).

African American Studies

African American Studies Major (B.A.)

Major code BA4903

Students completing the major program receive a Bachelor of Arts degree with a major in African American studies. Courses include communications, education, political science, psychology, social sciences, art, literature, and music as they reflect and provide insight into the African American experience.

Students can also work in close collaboration with their advisors in developing other focal areas in a range of fields including: Health and Human Services, Business Administration, African Studies, Latin American Studies, Environmental Studies, Social Work, Rural Sociology, Broadcasting, Journalism, and Multimedia Studies.

The minimum grade-point average for graduation is a 2.0 (C) in all courses attempted. A grade of C is also required in each major course.

Advising is an essential element in the African American Studies Program. Each student works closely with a faculty member whose expertise and interests are related to the student's academic pursuits.

The requirements for a major consist of 56-quarter hours, including:

AAS 101 or AAS 202	African Amer. History I African Amer. History II	4 4
AAS 106	Intro to Afr. Amer. Studies	4
One course from		
AAS 110	Intro to African Amer. Lit.	4
AAS 150	Intro to Black Media	5
AAS 180	Intro to Afr. Amer. Educ.	4

Within the 56 hours, at least 28 must be in one of two focal areas—either social sciences or arts and humanities. The focal area must include at least one course from four of the groups below and at least 16 hours at or above the 300 level.

Social Sciences Groups

History

AAS 225	Hist. of the Black Worker	4
AAS 235	Comp. Neocolonialism	4

AAS 254	History of Injustice in U.S.	5
AAS 340	The Black Community in Post-WWII	4
AAS 364	Comp. Study of Injustice	4

Sociology/Psychology

AAS 341	African Amer. Personality	4
AAS 345	The Black Woman	4
AAS 346	Black Masculinities	4
AAS 440	The Black Child	5
AAS 482	The Black Family	4

Political Science

AAS 360	Black Politics in U.S.	4
AAS 368	Black Political Thought	4
AAS 370	Urban Violence	4
AAS 430	Social Theories of Underdevelopment	4

Economics

AAS 432	Third World Natl. Mvts.	4
AAS 460	Social Processes: Third World Urbanization	4

Education

AAS 380	Seminar in African American Education	4
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Arts and Humanities Groups

Literature (African American)

AAS 210	African Amer. Lit. I	4
AAS 211	African Amer. Lit. II	4
AAS 310	Contemporary African American Literature	4
AAS 311	African American Lit.: Special topics	4
AAS 411	Literature Seminar	4

Literature (Intercultural)

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
AAS 317	Caribbean Literature	4

Arts

AAS 250	Found. of African Amer. Arts and Culture	4
AAS 350	African American Arts and Artists	4

Music

AAS 355	History of African Amer. Music I: Slavery to 1926	4
AAS 356	History of African American Music II: 1926–Present	4
AAS 357	Black Music Seminar I	3

Media

AAS 352	Blacks in Contemporary Cinema	4
AAS 353	Survey of Black Independent Cinema	4

African American Studies Minor

Minor code OR4903

The minor in African American Studies is available to all undergraduate students regardless of major. The requirements consist of a minimum of 28 hours of coursework in one of two options: the minor concentration or the interdisciplinary minor. The minor concentration in either the social sciences or the arts and humanities consists of a minimum of 28 hours, including at least 20 hours in the chosen area, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

The interdisciplinary concentration requires at least one course from each of the two focal areas, at least two additional courses at the junior or senior level, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

African Studies

See International Studies.

Anthropology

Anthropology Major (B.A.)

Major code BA4252

Anthropology may be defined broadly as the scientific study of humankind. This discipline has two major foci: humans as biological organisms and as cultural beings. This department concentrates on three of Anthropology's subfields: biological anthropology, cultural anthropology, and archaeology. Anthropology is a holistic, comparative, and functional discipline that provides a broad framework through which human activities, adaptations, and changes may be meaningfully interpreted in time and in space. Much of anthropology deals with non-Western cultures.

If you are interested in becoming a professional anthropologist, you can prepare for graduate school in the Department of Sociology and Anthropology. The anthropology major offers training in the methods and results of cultural anthropology, biological anthropology, and anthropological archaeology.

The B.A. in anthropology requires at least 55 hours of anthropology, including:

ANTH 101	Intro to Cultural Anth.	5
ANTH 201	Intro to Biological Anth.	5
ANTH 202	Intro to World Archaeology	5

4 hours of cultural anthropology selected from

ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 348	Education: Cross-Cultural Perspectives	4
ANTH 349	Life History	4
ANTH 350	Economic Anthropology	4
ANTH 351	Political Anthropology	4
ANTH 357	Anthropology of Religion	4
ANTH 366	Cultures of the Americas	4
ANTH 371	Ethnology	4
ANTH 372	Cultures of the World	4
ANTH 373*	Perspectives in Anthropology	4
ANTH 375	Culture and Personality	4
ANTH 376	Culture Contact and Change	4
ANTH 377	Peasant Communities	4
ANTH 381	Cultures of Sub-Saharan Africa	4
ANTH 383	Cultures of Latin America	4
ANTH 385	Cultures of Southeast Asia	4
ANTH 386	Problems in Southeast Asian Anthropology	4
ANTH 387	Pacific Island Cultures	4
ANTH 455*	Seminar in Methodology and Field Research	4
ANTH 460	Kinship	4
ANTH 472	History of Anthropological Thought	4
ANTH 494A	Seminar in Cultural Anthropology	4
ANTH 494D*	Seminar in Human Ecology	4
ANTH 499*	Anth. Internship	1-4

4 hours of biological anthropology selected from

ANTH 346	Intro to Human Osteology	4
ANTH 355	Medical Anthropology	4
ANTH 373*	Perspectives in Anth.	4
ANTH 391	Primate Social Org.	4
ANTH 447	Forensic Anth.	4
ANTH 448	Blood, Bones, and Violence	4
ANTH 492	Human Evolution	4
ANTH 4948	Seminar in Biological Anthropology	4
ANTH 496	Human Diversity	4
ANTH 499*	Anth. Internship	1-4

4 hours of archaeological anthropology from

ANTH 361	North American Prehistory	4
ANTH 363	Gender in Prehistory	4
ANTH 364	Near East Prehistory	4
ANTH 367	South American Prehistory	4
ANTH 370	Mexican/Central American Prehistory	4
ANTH 373*	Perspectives in Anth.	4
ANTH 378	Human Ecology	4
ANTH 452	Anthropological Archeology	4
ANTH 455*	Seminar in Methodology and Field Research	4
ANTH 465	Field School in Ohio Archeology	5-10
ANTH 494C	Seminar in Archaeological Anthropology	4
ANTH 494D*	Seminar in Human Ecology	4
ANTH 499*	Anth. Internship	1-4

28 additional hours in anthropology, of which 8 hours must be at the 400 level divided between two of the three main areas above

*when topic is appropriate

You are required to select an advisor from the anthropology faculty; your advisor will help you design an individualized course of study. As your interest shifts, you may change advisors. You are encouraged to take courses in fields related to anthropology. Courses in environmental and plant biology, biological sciences, geology, geography, history, linguistics, international studies, mathematics, psychology, and sociology may be recommended for students interested in particular specialties.

Anthropology Minor

Minor Code OR4252

A minor in anthropology is available if you wish to add a dimension of non-Western cultures to your education.

Requirements for a minor in anthropology are

ANTH 101	Intro to Cultural Anth.	5
ANTH 201	Intro to Biological Anth.	5
or ANTH 202	Intro to World Archaeology	5

(Both ANTH 201 and 202 are recommended.)

and 16 additional hours in anthropology (including 4 hours at 400 level and 4 additional hours at the 300 or 400 level)

Art

See School of Art in the College of Fine Arts section for information about selective admission requirements. To earn the B.A. degree in art from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

Asian Studies

See International Studies or East Asian Studies Certificate Program.

Astronomy

See Physics and Astronomy.

Bacteriology

See Biological Sciences—Microbiology.

Behavior

See Biological Sciences or Psychology.

Biological Sciences

Biology is the study of life and its component parts, from molecules to cells to ecosystems. It encompasses the entire biosphere that is the Earth. The current state of biological knowledge has taken centuries to accumulate, and with modern molecular and other analytical techniques, our understanding of biological processes is growing rapidly. The study of biology encompasses a broad spectrum of careers. These include researchers in the laboratory and field seeking to understand how molecules, cells, organisms, and groups of organisms work; those responsible for the health of all organisms, including humans; those interested in conservation of life and the environment; as well as those who educate others. Each plays a vital role and each needs to have a broad understanding of historical and current biology and modern techniques. The first two years of the biological sciences curriculum provide a solid basis for an understanding of life from the micro to the macro level, as well as in-depth introductions to three unifying topics: cell biology, genetics, and evolution. Specialized curricula at the upper-level include courses designed to prepare students for specific careers, graduate schools, and professional schools. Regardless of the special curricular track chosen, the student will graduate with a solid foundation in biological sciences as well as a thorough preparation for biological careers and advanced education.

The common requirements for the B.S. in biological sciences are as follows:

- A minimum of 54 quarter hours earned in biological science (BIOS) coursework. This may require several BIOS electives in addition to the courses listed under each specialized track. Additional courses may include 109 or any BIOS course at the 300 or 400 level (except 392).
- At least three upper-level 300-400 level courses in biological sciences must have a laboratory component.
(L) indicates BIOS laboratory course or a BIOS course with a laboratory component.

If you plan to attend graduate school, it is strongly recommended that you take BIOS 493 or BIOS 494H (Undergraduate Research) in your junior and/or senior year. See the biological sciences Web page for opportunities in undergraduate research.

Consult your DARS and your academic advisor when choosing courses to fulfill University and College requirements.

Unless otherwise indicated, BIOS departmental courses may be retaken only once.

The following is a list of core science requirements for biological sciences students in the first two years, regardless of specialization (Major code). Exceptions and additional

courses are listed under each major code, but the list below is common for most students pursuing a degree in biology.

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 151, 152, 153	Fundamentals Chem	15
CHEM 301, 302, or 305-307	Organic Chemistry	6 or 9
PSY 221	Statistics	5
MATH 266A, 266B	Calculus w/ App. Biology	8
PHYS 201-203 or 251-253	Physics	15

Junior and senior-level course requirements are determined by area of specialization.

Biological Sciences Minor

Minor code OR2121

Requirements for the minor in biological sciences consist of a minimum of 27 BIOS credit hours, including

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
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At least one of the following:

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4

Additional graded BIOS coursework at 300 level or above.

Students must have a minimum g.p.a. of 2.0 in BIOS course work taken for the minor.

Honors Program in Biology

Outstanding students who are not part of the Honors Tutorial College may graduate with Departmental Honors. These students may be in any BIOS area of specialization (major code). Departmental Honors requires that a student:

- Graduate with an overall g.p.a of at least 3.5, *i.e. cum laude*.
- Complete a senior honors research thesis with one of the faculty in the Department (this requires registering for BIOS 494H and 495H).

Graduation with Departmental Honors is a special achievement that offers:

- Special recognition at graduation and on the degree certificate.
- In-depth hands-on research experience in the laboratory of a faculty member.
- Direct and close interaction with a faculty member over the course of an entire year.

Biological Sciences—Biological Sciences Major (B.S.) Major code BS2121

The B.S. degree program in biological sciences is designed for students who seek flexibility and breadth in their program. This track is particularly well suited for students who plan to enter a biological sciences graduate program or professional school. To fulfill the minimum of 54 hours in biology, courses can be chosen to prepare for the student's specific area of interest while fulfilling the biology breadth requirement. This track also fulfills the needs of students interested in specializations in Clinical Laboratory Science/Medical Technology, Exercise Physiology or Neuroscience. See below for more information on these areas.

Freshman

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221	Statistics	5
or MATH 250,251	Prob and Statistics	or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202, 203 or 251, 252, 253	Physics	15

Some graduate or professional programs may require organic chemistry labs CHEM 303, 304.

Junior/Senior

At least one course must be taken from three of the five areas below:

1. Molecular, Cellular, and Developmental Biology

BIOS 322(L)	Animal Cell Biology Lab	2
BIOS 326(L)	Laboratory Genetics	3
BIOS 407	Developmental Biology	4
BIOS 414	Molecular Cellular Neurosci	4
BIOS 426	Molecular Genetics	3
BIOS 427	Mechanisms Gene Regulation	3
BIOS 463 or CHEM 490, 491	Cell Chemistry General Biochemistry I, II	4 or 7

2. Physiology and Body Systems

BIOS 342 and 354(L)	Prin Physiology I, Lab	5
BIOS 345 and 346(L)	Human Physiology, Lab	7

3. Form and Function

BIOS 300(L)	Anatomy and Histology	6
BIOS 301(L)	Human Anatomy	6
BIOS 303(L)	Comp. Vertebrate Anatomy	6
BIOS 430(L)	Invertebrate Biol	6
BIOS 436(L)	Field Entomology	3

4. Evolution, Ecology, and Behavior

BIOS 333	Neural Basis of Behavior	3
BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 429(L)	Marine Biology	5
BIOS 431(L)	Aquatic Biology	5
BIOS 457	Animal Systematics	4
BIOS 473	Animal Behavior	5
BIOS 475	Sociobiology	3
BIOS 479	Evolution	4
BIOS 481	Animal Conservation Biol	4

5. Plants and Microbes

BIOS 321(L)	General Microbiology	5
PBIO 211	Diversity of Life	5

Additional BIOS electives will be needed to fulfill the following requirements:

- 54 credit hours—additional courses may be from the list above or BIOS 109 or any BIOS course at the 300 level or above (except 392)
- 3 BIOS courses with a laboratory component 300 level or above.

A student in the Biological Sciences track also has the option of pursuing one of the following special interests. Contact the pre-professional advisor by the end of sophomore year to be assigned an appropriate faculty advisor.

Clinical Laboratory Science and Medical Technology

Students in any biological sciences major track may choose to enter a Clinical Laboratory Sciences internship provided they

have taken Microbiology (BIOS 321) and Immunology (BIOS 489A,B). The internship year in a licensed clinical facility qualifies a student to take the American Society of Clinical Pathologists registry exam to become a registered medical technologist. The program prepares students for work in hospital, public health, and medical diagnosis laboratories. Students registered at Ohio University may count courses taken during this period towards total credit hours in Biological Sciences.

Exercise Physiology

Students interested in exercise physiology may take courses designed to prepare for graduate studies in exercise or applied physiology. These students should take Human Anatomy (BIOS 301), Human Physiology (BIOS 345,346), and Physiology of Exercise (BIOS 445, 446). Biomechanics (BIOS 352) is also highly recommended.

Neuroscience

Students who are interested in graduate study in neuroscience or neuroscience research in conjunction with a health professional career should consider this option. Specialized neuroscience courses are required in the junior and senior years. Students are strongly encouraged to pursue undergraduate research since neuroscience careers almost exclusively involve research. Stipends and support for research are available, by application, during the summer of the third year.

Biological Sciences—Cellular and Molecular Biology (B.S.)**Special curriculum; major code BS2520**

Cellular and molecular biology are two of the most rapidly growing and exciting areas of modern biology. Progress in these areas is driven by the ongoing revolution in genetics and genomics, and has profound and wide-ranging implications for medicine and for our understanding of the mechanisms of life. This specialization will prepare students for graduate or professional school, and career paths in biotechnology, biomedical research, and related areas. These are fields that are experiencing tremendous growth in employment opportunities both in academia and in the private sector.

BS2520 Includes a minimum of 57 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221	Statistics	5
or MATH 250, 251	Prob and Statistics	or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 322(L)	Animal Cell Biology Lab	2
BIOS 330	Principles of Evolution	4
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 303, 304	Organic Chemistry Labs	5
PHYS 201, 202, 203 or 251, 252, 253	Physics	15

Junior-Senior

BIOS 326(L)	Genetics Lab	3
BIOS 426	Molecular Genetics	3
BIOS 427	Mechanisms Gene Regulation	3
CHEM 490, 491	General Biochemistry I, II	7

At least two of the following elective cellular/molecular courses:

BIOS 342, 354(L)	Prin. Physiology I, Lab	5
BIOS 343, 355(L)	Prin Physiology II, Lab	5
BIOS 407	Developmental Biology	4
BIOS 414	Molecular Cellular Neurosci	4
BIOS 422(L)	Microbial Techniques	5
BIOS 424A,	Virology	3
BIOS 425	Evolutionary Genetics	4
BIOS 450	Principles of Endocrinology	4
BIOS 489(L)	Microbial Physiology	5

Biological Sciences—Marine, Freshwater, and Environmental Biology (B.S.)

Special curriculum; major code BS2126

The Department of Biological Sciences provides this program for undergraduate majors who are interested in careers studying marine and freshwater organisms and their environments. Students focusing on terrestrial environments should consider the Wildlife and Conservation Biology track. Courses meet the requirements for admission to graduate programs in marine biology, zoology, ecology, and conservation biology. The program also provides the necessary background for jobs with state and federal agencies (i.e., USDA or EPA) charged with environmental protection, research and monitoring, and information collection. Tier II social science electives can be chosen to meet the requirements of the Environmental Studies Certificate. For federal job and employment information, see <http://www.usajobs.opm.gov/>

BS2126 includes a minimum of 58 hours in BIOS.

Freshman

BIOS 170, 171 172, 173	Intro to Zoology	14
MATH 266A, 266B	Calculus w/App Biology	8
CHEM 151, 152, 153	Chemistry	15
PSY 221	Statistics	5
or MATH 250, 251	Prob and Statistics	or 8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Evolution	4
CHEM 301, 302 PHYS 201, 202 or 251, 252	Organic Chemistry Physics	6 10

Junior

BIOS 431(L)	Aquatic Biology	5
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Junior-Senior

BIOS 429(L) or BIOS 433(L)	Marine Biology Biol Monit Assess	5 or 4
BIOS 491	Internship	3

At least one course must be taken from each of the three areas below:

1. Organismal (at least 5 credit hours required)

BIOS 303(L)	Comp Vert Anat	6
BIOS 321(L)	Microbiology	5
BIOS 430(L)	Invertebrate Biology	6
BIOS 436(L)	Field Entomology	3
BIOS 458(L)	Biology of Amphibians	3
BIOS 465(L)	Ichthyology	6

2. Ecology (one course required)

BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4

3. Molecular, Cellular, and Physiology (one course required)

BIOS 342, 354(L)	Prin of Physiology I, Lab	5
BIOS 426	Molecular Genetics	3
BIOS 462	Animal Phys Ecology	4
BIOS 463	Cell Chemistry	4

Additional electives may be needed to fulfill the following requirements:

• 58 BIOS credit hours. Choose additional courses from the list above or from any BIOS course at the 300-level or above (except 392) or from the following:

GEOG 417	Landscape Ecology	4
GEOL 453	Physical Limnology	4
GEOL 427	Water Geochemistry	4
GEOL 480	Principles of Hydrogeology	4
PBIO 420	Phycology	5
PBIO 437	Ecosystem Ecology	4
CE 452	Water and Wastewater Analysis	3

Biological Sciences—Microbiology (B.S.)

Special curriculum; major code BS0411

The Department of Biological Sciences provides a program for undergraduate majors who are interested in microbiology. This program provides the necessary background and extensive lab experience to pursue a variety of careers in the areas of: research and product development (e.g. immunology, vaccines, antimicrobials, pharmaceuticals, biotechnology), food and water quality control, microbial ecology, and clinical laboratory science. Graduates of this program are also prepared for further graduate studies in medicine, dentistry, optometry, public health, microbiology or molecular biology. With current interest and advances in molecular biology and genetics, emerging pathogens such as HIV and food-borne illness, the career opportunities and outlook are very good.

Students in this program are encouraged to participate in research opportunities their junior-senior years to prepare for a successful career in research and development.

BS0411 includes a minimum of 60 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221	Statistics	5
or MATH 250, 251	Prob and Statistics	or 8
MATH 266A*	Calculus w/App Biology	4

*Students who change special curricula (major codes) within Biology will also be required to take MATH 266B.

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330 or BIOS 385	Principles of Evolution Microbial Ecology	4 or 3
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307	Organic Chemistry	9
PHYS 201, 202, 203 or 251, 252, 253	Physics	15

Junior-Senior

BIOS 486A, B(L)	Immunology, Lab	5
BIOS 489 (L)	Microbial Physiology	5
BIOS 426	Molecular Genetics	3
CHEM 490, 491	General Biochemistry I, II	7

At least 12 hours, including 2 lab courses from:

BIOS 326(L)	Lab Genetics	3
BIOS 385	Microbial Ecology	3
BIOS 422(L)	Microbiological Techniques	5

BIOS 423A, 423B(L)	Pathogenic Bacteriology, Lab	5
BIOS 424A	Virology	3
BIOS 427	Gene Regulation	3
BIOS 441A, 441B(L)	Parasitology, Lab	5
BIOS 444	Tropical Disease Biology	4

Biological Sciences—Pre-Physical Therapy (B.S.) Special curriculum; major code BS2507

The biology pre-physical therapy major is designed to meet the prerequisites of the physical therapy program at Ohio University and most other institutions as well as nursing, physician assistant, and chiropractic programs. This major is also designed to provide students with a solid background in the life sciences. It should be noted that there are no uniform requirements for physical therapy schools. If you are interested in applying to a particular physical therapy program you will need to consult the school's catalog or Web site for exact prerequisites. For more information about the Ohio University School of Physical Therapy, see the Physical Therapy listing in this catalog.

BS2507 includes a minimum of 55 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A*	Calculus w/App Biology	4
PSY 101	General Psychology	5
PSY 273	Child Adolescent Psy	4

*Students who change special curricula (major codes) within Biology will be required to take MATH 266B.

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202, 203 or 251, 252 or 262, 253	Physics	15
PT 259A	Intro to Phys. Therapy	2

Junior-Senior

BIOS 301(L)	Human Anatomy	6
BIOS 345 and 346(L)	Human Physiology and Lab	7
BIOS 413(L)	Human Neuroscience	4
BIOS 445 and 446(L)	Physiology of Exercise and Lab	7
BIOS 463 or CHEM 490 and 491	Cell Chemistry General Biochemistry I and II	4 7

Recommended Elective:

PT 259B	Intro to PT-Clinical Exp.	3
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Additional recommended electives that fulfill Tier II and Arts and Sciences distribution requirements and are required by some PT schools:

CLAS 227	Greek and Latin Roots	4
PHIL 101 or PHIL 130	Fund Philosophy Intro to Ethics	5
PSY 226	Research Methods in Psychology	4

Biological Sciences—Pre-Professional Program (B.S.) Special curriculum; major code 2127

The Department of Biological Sciences provides a specialized curriculum for students interested in one of the following:

Pre-dentistry
Pre-medicine
Pre-optometry
Pre-veterinary medicine

While no specific major is required by any of these schools, this curriculum provides students with a degree in Biological Sciences, prepares them for their professional school experience, and fulfills course requirements for entry into most schools. Applicants to these schools are required to take one of the following admission tests: Dental Admission Test (DAT), Medical College Admission Test (MCAT), Optometry Admission Test (OAT), and either the Veterinary Admission Test (VAT) or Graduate Record Exam (GRE) for veterinary school.

Students will be assigned an academic advisor who specializes in the type of professional school he or she is interested in attending. A student should contact the schools of choice and consult both their academic advisor and the department pre-professional advisor for specific course and exam requirements.

BS2127 includes a minimum of 55 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307*	Organic Chemistry	9
PHYS 201, 202, 203 or 251, 252 or 262, 253	Physics	15

Junior-Senior

BIOS 303(L)	Comp Vert. Anatomy	6
BIOS 342, 354(L)	Prin. of Physiology I, Lab	5
BIOS 343	Prin. of Physiology II	3
BIOS 463 or CHEM 490 and 491**	Cell Chemistry General Biochemistry I and II	4 7

One course must be taken from each area below:

Molecular, Cellular and Developmental Biology

BIOS 326(L)	Laboratory Genetics	3
BIOS 407	Developmental Biology	4
BIOS 414	Molecular and Cellular Neurosci	4
BIOS 426	Molecular Genetics	3
BIOS 427	Mechan. Gene Regulation	3

Physiology and Body Systems

BIOS 355(L)	Prin. Physiology II Lab	2
BIOS 445	Physiology of Exercise	4
BIOS 450	Principles of Endocrinology	4
BIOS 486A	Immunology (optional lab BIOS 486B)	3 2

*Many medical and dental schools require organic chemistry labs for admission. Students considering these careers should take

CHEM 303, 304	Organic Chemistry Lab	5
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**Students considering medical school or veterinary school should take CHEM 490,491 to fulfill their biochemistry requirement.

Many optometry schools require a psychology course for admission. The following is recommended for students interested in this career track:

PSY 101	General Psychology	5
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Biological Sciences—Wildlife and Conservation Biology (B.S.)

Special curriculum; major code BS2515

This track is suitable for students who are interested in careers in the conservation and biology of wildlife. Graduates of this program meet the course qualifications for state and federal civil service registers as ecologist, wildlife biologist, wildlife refuge manager, zoologist, and general biologist. This program also provides training for students planning to go on to graduate school in wildlife biology or an allied discipline such as mammalogy, ornithology, herpetology, animal ecology, animal behavior, and conservation biology.

Tier II social science electives can be chosen to meet the requirements of the Environmental Studies Certificate program. For federal job and employment information, check the following Web site: <http://www.usajobs.opm.gov/>

BS2515 includes a minimum of 56 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202 or 251, 252	Physics	10

Junior-Senior

BIOS 303(L)	Comp. Vert. Anatomy	6
BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 491(L)	Internships	3

At least 12 hours in wildlife subjects including at least one lab course from:

BIOS 471(L)	Ornithology	6
BIOS 474(L)	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481	Animal Conservation Bio	4
BIOS 458(L)*	Biology of Amphibians	3
BIOS 459(L)*	Biology of Reptiles	3
BIOS 465(L)*	Ichthyology*	6

The following 14 hours in PBIO courses:

PBIO 211	Diversity of Life	5
PBIO 248	Trees and Shrubs	4
PBIO 435 or PBIO 436 or PBIO 437	Plant Population Biology Plant Community Ecology Ecosystem Ecology	5 5 4

*BIOS 465, BIOS 458, and BIOS 459 may be used to fulfill elective requirements for this track, but do not meet federal civil service register requirements as wildlife subjects.

Biology

See Biological Sciences or Environmental and Plant Biology

Cartography

See Geography, Geographic Information Science.

Chemistry and Biochemistry

Upon completing the requirements for the B.S. degree with a major in chemistry, you are eligible for professional status in the American Chemical Society. Completion of a B.A. degree in chemistry does not qualify you for certification.

Due to changes in standards for teacher licensure in the State of Ohio, the current program in chemistry is subject to change. If you are interested in becoming licensed to teach chemistry at the secondary level, contact the Office of Student Services in the College of Education.

All chemistry laboratory courses have a consumable materials fee. In addition, students must purchase a \$20 breakage card from the cashier's office, the unused portion of which will be refunded.

Chemistry Major (B.S. or B.A.)

Major codes BS3311, BA3311

The B.S. degree program is chosen by students planning to enter a graduate program in chemistry or work in the chemical industry. Requirements for the B.S. degree include a minimum of 76 hours of chemistry from the following:

CHEM 151-152-153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quant. Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 460	Spectroscopic Methods in Organic Chemistry	3
CHEM 376	Fund. of Inorganic Chemistry	3
CHEM 476	Mod. Inorganic Chemistry	4
CHEM 489 or CHEM 490-491-492	Basic Biochemistry General Biochemistry	4 or 10

Any two of the following:

CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5

Extracurricular requirements include MATH 263A-B-C-D and PHYS 251-252-253, which should be completed by the end of the second year.

Requirements for the B.A. degree in chemistry include a minimum of 53 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 301, 302 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	6 or 9
CHEM 303, 304 or CHEM 308, 309	Organic Chemistry Lab Organic Chemistry Lab	5 or 6
CHEM 325	Instr. Meth. of Analysis	4

or any two pairs:

CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 351 or CHEM 453, 454, 455	Physical Chemistry Physical Chemistry	4 or 9
CHEM 376	Fund. of Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4

One course in biochemistry

A full year's work is required in at least one of the following fields:

Analytical: 241-242 and any two of the pairs 431-434, 432-435, 433-436

Organic: 305-306-307

Physical: 453-454-455

Biochemistry: 490-491-492

Extrdepartmental requirements include MATH 163 A-B and PHYS 201-202-203, which should be completed by the end of the second year.

Chemistry Minor

Minor code OR3311

A minor program in chemistry requires a 2.0 overall g.p.a. and completion of at least 29 quarter hours of chemistry coursework, including

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302, 303 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	8 or 9
Any two of the following:		
CHEM 241 and 242	Quantitative Analysis	5
CHEM 351 or CHEM 453	Physical Chemistry	4 or 3
CHEM 489 or 490	Biochemistry	4
CHEM 376	Fund. Inorganic Chem.	3

You must have a minimum g.p.a. of 2.0 in chemistry coursework taken for the minor.

Chemistry-Biochemistry Major (B.S.)

Special curriculum; major code BS3316

This program serves students who have an interest in biological applications of chemistry as a biochemist or health scientist in medicine, industry, or research; as preparation for graduate studies in biochemistry or another life science such as molecular biology, microbiology, or immunology; or as preparation for combining a career in medicine, dentistry, pharmacy, etc., with research. The curriculum includes all fundamental areas of chemical and biological sciences with emphasis on advanced biochemistry, including biochemical laboratory techniques, instruments, experiment design, and protocols, and requires 56 hours of chemistry, including:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263 A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14
Arts and Sciences degree and General Education Requirements.		

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15
BIOS 325	General Genetics	5

Arts and Sciences degree and General Education Requirements.

Junior

CHEM 325 or CHEM 431, 434	Instr. Analysis Chem. Separation Meth.	4
CHEM 351	Physical Chemistry	4
CHEM 490, 491, 492	General Biochemistry	10
CHEM 493	Biochemical Techniques	3

Arts and Sciences degree and General Education Requirements.

Senior

BIOS 426 or PBIO 450	Biotech. and Genetic Eng.	4
BIOS 342, 343	Prin. of Physiology	6
Elective: CHEM 494	Biochemical Research	1-5

Environmental Chemistry Major (B.S. or B.A.)

Special curricula; major codes BS3315, BA3315

To prepare for a career in environmental chemistry, you can pursue the regular B.S. or B.A. in chemistry and take some of the following environmentally related courses as electives.

The Department of Chemistry and Biochemistry has advisors in environmental chemistry to assist you in planning your studies in the field. See also the environmental degree programs in the Departments of Biological Sciences, Environmental and Plant Biology, Geography, and Geology.

The B.S. degree program is chosen by students seeking entrance into graduate programs in chemistry. Requirements for the B.S. degree in environmental chemistry include at least 78 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 376	Fund. Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4
CHEM 431	Chem. Separation Meth.	3
CHEM 432	Chemical Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3
CHEM 434	Chemical Separations Lab	1
CHEM 435	Chemical Instrumentation and Electrochemistry Lab	1
CHEM 436	Spectrochem. Anal. Lab	2
CHEM 489 or CHEM 490, 491, 492	Basic Biochemistry General Biochemistry	4 10

Extrdepartmental requirements

MATH 263A-B-C-D

PHYS 251-252-253

These courses should be completed by the end of the second year.

Requirements for the B.A. degree in environmental chemistry include at least 53 hours of chemistry from the following:

CHEM 151, 152, 153	Fundamentals of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 301, 302 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	6 or 9
CHEM 303, 304 or CHEM 308, 309	Organic Chemistry Lab Organic Chemistry Lab	5 or 6
CHEM 325	Instr. Meth. of Analysis	4
or any two of the following pairs:		
CHEM 431, 434	Chemical Separation Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochemical Anal., Lab	5
CHEM 351 or CHEM 453, 454, 455	Physical Chemistry Physical Chemistry	4 or 9
CHEM 376	Fund. Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4
One course	Biochemistry	

A full year's work is required in at least one of the following fields:

Analytical: 241-242 and any two pairs of 431-434, 432-435, or 433-436

Organic: 305-306-307

Physical: 453-454-455

Biochemistry: 490-491-492

Extrdepartmental requirements include MATH 163 A-B and PHYS 201-202-203, which should be completed by the end of the second year.

Suggested electives

BIOS 275	Animal Ecology	4
BIOS 221, 222	Env. Microbiology, Lab	6

CHEM 485	Intro to Toxicology	4
GEOG 357	Environmental Law	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
ECON 335	Economics of Energy	4
CHE 461	Environ. Assessments	3
CE 452	Water and Wastewater Analysis	3
GEOG 201	Environmental Geography	4
GEOG 241	Global Issues in Env. Geog.	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 440	Environ. Impact Analysis	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 480	Hydrogeology	4
PBIO 410	Plants and Soil	4
PBIO 425	Plant Ecology	5
POLS 425	Env. and Natural Res. Economics	4

Forensic Chemistry Major (B.S.)

Major code BS3310

Forensic chemistry is the application of chemistry and related sciences to criminal investigation. The program prepares you for work in modern crime laboratories or other law enforcement agencies such as FDA, OSHA, and EPA, or for graduate work in forensic chemistry or forensic sciences. Requirements for the degree include at least 69 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 305, 306, 307 308, 309	Organic Chemistry, Lab	15
CHEM 351	Physical Chemistry	4
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 485	Intro to Toxicology	4
CHEM 487A	Forensic Chemistry	3
CHEM 487B	Forensic Chemistry Lab	3
CHEM 489	Biochemistry	4

In addition, students must choose to complete all the course for ONE of the options below:

Option 1: Trace Analyst

CHEM 376	Fund. of Inorganic Chem.	3
CHEM 460	Spectroscopic Methods in Organic Chemistry	3
CHEM 400A	Adv. Organic Chem. Lab	2
CHEM 488A	Topics in Forensic Science I	3

Option 2: DNA Analyst

CHEM 488C	Forensic DNA Analysis II	3
BIOS 325	General Genetics	5
BIOS 326	Laboratory Genetics	4
PBIO 450	Biotechnology and Genetic Engineering	4

Extracurricular requirements

LET 100	Intro to Law Enforc. Tech.	3
LET 120	Const., Crim., Civil Law	3
LET 140	Intro to Criminalistics	3
LET 200	Proc., Rules, and Tests of Evidence	4
LET 250	Vice and Narcotic Cont.	3
LET 260	Criminal Investigation	3
MATH 263A, B	Calculus	8
PHYS 251, 252, 253	General Physics	15

BIOS 170, 171	Intro to Zoology	10
BIOS 364	Forensic Biology	4
P5Y 221	Statistics for the Behavioral Sciences	5

Consult the director, Forensic Chemistry Program, Department of Chemistry and Biochemistry, for advance advising and schedule planning.

Chemistry—Pre dentistry Major (B.S. or B.A.)

Special curricula; major codes BS3312, BA3312

To major in chemistry and prepare for admission to dental school, you have the option of completing either of two degree programs: one leading to a B.S. and the other to a B.A. degree.

Requirements for the B.S. program include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 263A, 8 or MATH 163A, B	Calculus Intro to Calculus	8 or 7
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15
CHEM 376	Fund. Inorganic Chem.	3

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
BIOS 342, 343	Intro to Physiology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6
BIOS 321	General Microbiology	6
BIOS 407	Developmental Biology	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Requirements for the B.A. program include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 163A, B	Intro to Calculus	7
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
CHEM 376	Fund. Inorganic Chem.	3
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Chemistry—Premedicine Major (B.S. or B.A.)
Special curricula; major codes BS3314, BA3314

To major in chemistry and prepare for admission to medical school, you can complete either of two programs: one leading to a B.S. and the other to a B.A. degree.

Requirements for the **B.S. program** include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B or MATH 163A, B	Calculus Intro to Calculus	8 or 7
BIOS 170, 171, 172, 173	Intro to Zoology	14
PSY 221	Statistics	5
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
CHEM 376	Fund. Inorganic Chem.	3
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
BIOS 342, 343	Prin. of Physiology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Comp. Vert. Anatomy	6
BIOS 407 or BIOS 321	General Microbiology Developmental Biology	6 4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Requirements for the **B.A. program** include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 163A, B	Intro to Calculus	7
BIOS 170, 171, 172, 173	Intro to Zoology	14
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6

CHEM 376	Fund. Inorganic Chem.	3
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Chemistry—Prepharmacy Major (B.S.)
Special curriculum; major code BS3313

Completion of the program below will result in a B.S. degree with a major in chemistry. The program is specifically designed to prepare the student for admission into a Doctor of Pharmacy program at an accredited pharmacy school. Graduates of a Doctor of Pharmacy program are eligible to take licensure examinations to become registered pharmacists.

The program listed below is based upon the requirements of the four pharmacy schools in Ohio, but other schools may vary in their requirements. It is the responsibility of the student to ensure that the admission requirements for a particular school are met. Consult your advisor for assistance.

Unless otherwise indicated, BIOS departmental courses may be retaken only once. Requirements include 53 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instr. Methods of Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 300 or BIOS 301	Anatomy and Histology Human Anatomy	6 6
BIOS 321	General Microbiology	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Classics and World Religions

The B.A. degree in Classics includes four possible tracks reflecting the range of interests in the field. Each track requires a different balance of study in Classics (Greek and Latin) and Classical civilization. The B.A. degree in World Religions

incorporates several distinct emphasis areas reflecting the modern range of interest in the field.

The department offers courses in Greek, Latin, Classical archaeology (CLAR), Classic texts in translation (CLAS), and world religions (CLWR). Although there is no specific major in archaeology or Classics in English, the Classical Civilization major offers the opportunity to concentrate in either area. The World Religions major also offers a wide choice of coursework upon which to build an individual course of study. In the Courses of Instruction section, look under Classics and World Religions for Classical Archaeology, Classics in English, and World Religions; and look under Foreign Languages and Literature for courses in Greek and Latin.

The department offers two study-abroad programs in alternate years, a 10 week spring program in Greece, and a 10 week fall program in Rome taught jointly by Classics and the Department of Modern Languages. The program in Greece is geared toward intermediate-level students of Greek. While in Greece, you will visit archaeological and historical sites and learn Modern Greek as you continue your study of ancient Greek texts. The program in Rome focuses on the city itself through archaeological survey of the monuments and the analysis of history and literature from the perspective of social history.

Classical Civilization Major (B.A.)

Major code BA5214

The Classical Civilization major consists of: completion of the Latin or Greek language sequence through 213, and a minimum of 48 hours of coursework, including a senior research project. This would include:

A. A minimum of 20 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 300-400 level LAT and GK courses. Of the 20 hours, 12 must be from 3 of the following courses:

CLAS 252	Classical Athens	4
CLAS 254	Rome under the Caesars	4
CLAR 211	Greek Archaeology	4
CLAR 212	Roman Archaeology	4

B. A minimum of 20 hours from 300-400 level CLAS, CLAR, HIST 329B and C, LAT and/or GK courses.

C. 8-10 hours from extradepartmental courses approved in consultation with a Classics faculty advisor in connection with the student's approved course of study.

Classical Civilization Minor

Minor code OR5214

The Classical Civilization minor requires a minimum of 28 hours of coursework in Classics above the 100 level, including:

A. A minimum of 16 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 200 level LAT or GK courses, including one of the following courses in Greek culture:

CLAS 252	Classical Athens	4
CLAR 211	Greek Archaeology	4
and one of the following courses in Roman culture:		
CLAS 254	Rome under the Caesars	4
CLAR 212	Roman Archaeology	4

B. A minimum of 12 hours from 300-400 level CLAS and CLAR courses. No knowledge of the Greek or Latin languages is required for the Classical Civilization minor.

Greek Major (B.A.)

Major code BA5212

Take 28 hours in Greek beyond GK 213, and 24 additional hours from approved CLAS, CLAR, HIST 329B, LAT and/or GK courses for a total of 52 hours.

Greek Minor

Minor code OR5212

Take 12 hours in Greek beyond GK 213, and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

Greek and Latin Major (B.A.)

Major code BA5213

Take a total of 40 hours in Greek and Latin beyond GK and LAT 213; and 24 additional hours from approved CLAS, CLAR, HIST 329B and C, LAT and/or GK courses for a total of 64 hours.

Latin Major (B.A.)

Major code BA5211

Take 28 hours in Latin beyond LAT 213; and 24 additional hours from approved CLAS, CLAR, HIST 329C, LAT and/or GK courses for a total of 52 hours.

Latin Minor

Minor code OR5211

Take 12 hours in Latin beyond LAT 213 and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

Suggested electives:

Anthropology

ANTH 202	Intro to World Archaeology	5
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Art History

AH 320	Greek Art	4
AH 321	Roman Art	4
AH 351	Ancient Architecture	4

History

HIST 328	The World of Aristophanes	3
HIST 331	The Ancient Greek Games	4

Humanities

HUM 107	Great Books	4
HUM 307	Great Books	4

Philosophy

PHIL 310	History of Western Philosophy	5
PHIL 418	Plato	5
PHIL 419	Aristotle	5

Political Science

POLS 371	Plato, Aristotle, and Pre-modern Political Thought	5
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World Religions Major (B.A.)

Major code BA5215

The B.A. degree in world religions incorporates several distinct emphasis areas reflecting the modern range of interest in the field and offers a wide choice of coursework upon which to build an individual course of study.

The World Religions major consists of a minimum of 45 hours of coursework in CLWR, CLAS, or CLAR, of which 16 hours must be at or above the 300 level, other than 490, 491, and 498, and at least two years of study in a language relevant to the chosen emphasis area.

Required courses:

CLWR 1B1 or CLWR 387 or CLWR 481	Introduction to Religion Theories of Religion Myth and Symbolism	4 4 5
CLWR 301 or CLWR 302	Old Testament New Testament	5 5
CLAS 231 or CLAS 255	Human Aspirations among the Greeks and Romans Pagan to Christian in Late Antiquity	4 4

Two of the following:

CLWR 311	Islam	4
CLWR 321	Hinduism	4
CLWR 331	Buddhism	4
CLWR 341	Taoism	5

Emphasis area: at least 12 hours of coursework in the ancient Mediterranean or Asia, although other emphasis areas may be developed with advisor or department approval.

Thesis.

CLWR 490	Senior Research	2
CLWR 491	Senior Research Writing	4

Extra-departmental courses: at least 1 course (4 hours). (Courses do not count toward the 45 hours in the major, but can fulfill general education requirements).

ANTH 357	Anthropology of Religion	4
ENG 304	English Bible	4
GEOG 336	Religious Space and Place	4
HIST 354A	Early Christianity	4
PHIL 260	Philosophy of Religion	4

World Religions Minor**Minor code OR5215**

The World Religions minor consists of a minimum of 28 hours in courses under the prefix CLWR, including:

CLWR 181	Introduction to Religion	4
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At least one 300 level course on the Abrahamic religions:

CLWR 301	Old Testament	5
CLWR 302	New Testament	5
CLWR 311	Islam	4

at least one 300 level course about traditions originating in India or China:

CLWR 321	Hinduism	4
CLWR 331	Buddhism	4
CLWR 341	Taoism	5

and at least two classroom courses at the 400 level

Computer Science

See Russ College of Engineering.

Criminology

See Sociology—Criminology Major.

Dentistry

See Biological Sciences or Chemistry and Biochemistry.

Drama

See Theater.

East Asian Studies Certificate Program

The East Asian Studies Certificate is open to students from any major. It will provide undergraduates with a broad understanding of East Asia as well as with language skills applicable for a wide variety of professions. The curriculum involves courses from four University colleges and many disciplines, and includes opportunity for study abroad in China at the Ohio Shandong Center in East Asian Studies. It calls for the completion of a two-year sequence of one East Asian language (these credits do not count toward the certificate), 4 hours of a required course, and 28 hours of elective courses, for a total of 32 hours.

Prerequisites

The first two years of an East Asian language. Students demonstrating ability can enter at upper levels, as appropriate.

Chinese:

CHIN 111-113	Elementary Chinese
CHIN 211-213	Intermediate Chinese

Japanese:

JPN 111-113	Elementary Japanese
JPN 211-213	Intermediate Japanese

Required courses—4 hours**Introductory course:**

HIST 246	Modern Asia	4
or POLS 342	East Asia in World Politics	4

The prerequisite hours in history and political science will be waived for certificate students who complete the upper level East Asian language series.

Elective courses—28 hours

To encourage the widest exposure possible, you will receive credit for no more than two courses in the same discipline (not including the introductory course), with the exception of the upper level language courses, which may total 12 credits.

AH 214	Arts of Non-Western Countries	4
AH 330	Arts of the Orient	4
AH 341	History of Chinese Art	4
AH 342	Art of 20th Century China	4
AH 343	History of Japanese Art	4
AH 435	Survey of Art of 20th C. China	4
AH 440	Survey of Chinese Art	4
CHIN 311-313	Advanced Chinese	12
CLWR 331	Buddhism	4
CLWR 341	Taoism	4
ECON 476	Econ of Korea, Japan and South Eastern Asia	4
FILM 421	International Film (Chinese Films)	4
FILM 422	International Film (Development of Chinese Films)	4
GEOG 131	Globalization and the Developing World	4
GEOG 329	World Economic Geography	4
GEOG 338	Southeast Asia	4
HIST 346C	Ancient China	4
HIST 346D	Imperial China	4
HIST 346E	China's Past Century	4
HIST 348A	Traditional Japan	4
HIST 348B	Modern Japan	4
JPC 250	Japanese Lang. and Culture	4
JPC 450	Japan: A Sociocultural Interpretation	4
JPN 311-313	Advanced Japanese	12
JPN 411-413	4th Year Japanese	12
JOUR 466	International Media	4
MGT 486	Business World in Asia	4
POLS 230	Intro. to Comparative Politics	4
POLS 445	Gov. and Politics of Japan	4
SOC 430	Sociology of Organizations	4
SOC 465	Social Change	4

Ecology

See Biological Sciences or Environmental and Plant Biology.

Economics**Economics (B.A.)****Major code BA4221**

Two opportunities are open to students interested in majoring in economics: a liberal arts program in the College of Arts and Sciences and a business economics program in the College of Business.

To major in economics in the College of Arts and Sciences, you must complete the B.A. degree requirements of the college and the following program to include a minimum of 40 hours of economics:

MATH 163A	Intro to Calculus	4
40 hours of economics, including:		
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 381	Intro to Econ. Statistics and Econometrics	4
ECON 485 or ECON 482	Applied Economic Methodology Topics in Econometrics	4

If you have definite career goals, you are encouraged to follow a specific track within the economics major. A track identifies electives that are most relevant to a given career. Additional information is available from the Department of Economics

Courses for the prelaw track

ECON 213	Current Economic Problems	4
ECON 316	Economics and the Law	4
ECON 332	Industrial Organization	4
ECON 334	Econ. and Antitrust Law	4
ECON 337	Govt. Reg. of Business	4

Courses for the policy analysis track

ECON 213	Current Economic Problems	4
ECON 312	Economics of Poverty	4
ECON 313	Econ. of the Environment	4
ECON 315	Economics of Health Care	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4

Courses for the business economics track

ECON 305	Managerial Economics	4
ECON 320	Labor Economics	4
ECON 332	Industrial Organization	4
ECON 337	Govt. Reg. of Business	4
ECON 340	International Trade	4
ECON 360	Money and Banking	4

Economics Minor Minor code OR4221

A minor in economics consists of a minimum of 28 credit hours in economics including

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4

At least two other courses at the 300 level or above

Economics Pre-Foreign Service Major (B.A.) Special curriculum; major code BA4223

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

Economics—Prelaw Major (B.A.) Special curriculum; major code BA4222

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed; as a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have

designated advisors assigned to help students interested in law careers. For further information, see Law in this section of the catalog.

English

The Department of English offers majors in English, creative writing, prelaw, and theology. If you are an Arts and Sciences student interested in becoming licensed to teach English at the secondary level (middle school or high school), please seek assistance at the department office, Ellis 360, to meet with English department faculty knowledgeable about English education. Together you can plan how to complete the licensure requirements listed under Integrated Language Arts in the College of Education section of this catalog.

The department also offers Arts and Sciences students who qualify the opportunity to take an intensive 60-hour two-year major in tutorial form alongside the Honors Tutorial College English majors. Tutorial seminars start each September. Students must have a high degree of self-motivation and have excellent capacities for the study of English literature. If interested, apply to the departmental director of the Tutorial Program through the department office.

English Major Major code BA5231

The major requirement for the literature-based B.A. degree consists of at least 59 hours above 199, including:

ENG 250	Intro to Textual Analysis	4
ENG 251	English Lit. to 1688	5
ENG 252	English Lit. 1689 to Present	5
ENG 253	Survey of American Lit.	5
ENG 254	Research and Writing in English Studies	4

Two of the following seven:

ENG 301	Shakespeare: Histories	4
ENG 302	Shakespeare: Comedies	4
ENG 303	Shakespeare: Tragedies	4
ENG 311	English Lit. to 1500	4
ENG 312	English Lit. 1500–1660	4
ENG 313	English Lit. 1660–1800	4
ENG 321	American Lit. to 1865	4
ENG 351 or ENG 352 or ENG 353 or ENG 399	Hist. of the English Language Dev. of American English Struct. of American English Literary Theory	4 4 4 4

Eight hours of:

ENG 460, 464, 465, 466	Senior Seminar	4
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Four 300- or 400-level electives

English Creative Writing Major Major code BAS232

The major requirement for the creative-writing-based B.A. degree consists of at least 67 hours above 199, including:

ENG 250	Intro to Textual Analysis	4
ENG 251	English Lit. to 1688	5
ENG 252	English Lit. 1689 to Present	5
ENG 253	Survey of American Lit.	5
ENG 254	Research and Writing in English Studies	4

Two of the following seven:

ENG 301	Shakespeare: Histories	4
ENG 302	Shakespeare: Comedies	4
ENG 303	Shakespeare: Tragedies	4
ENG 311	English Lit. to 1500	4

ENG 312	English Lit. 1500–1660	4
ENG 313	English Lit. 1660–1800	4
ENG 321	American Lit. to 1865	4
ENG 351 or ENG 352 or ENG 353 or ENG 399	Hist. of the English Language Dev. of American English Struct. of American English Literary Theory	4 4 4 4

Three of the following:

ENG 361	Creative Writing: Fiction	4
ENG 362	Creative Writing: Poetry	4
ENG 363	Creative Writing: Nonfiction	4
ENG 393	Creative Writing Workshop: Fiction	4
ENG 394	Creative Writing Workshop: Poetry	4
ENG 395	Creative Writing Workshop: Nonfiction	4
ENG 486	Advanced Workshop in Poetry	4
ENG 487	Advanced Workshop in Fiction	4
ENG 488	Advanced Workshop in Nonfiction	4

One of the following:

ENG 481	Form and Theory of Literary Genres: Poetry	4
ENG 482	Form and Theory of Literary Genres: Fiction	4
ENG 483	Form and Theory of Lit. Genres: Nonfiction	4

Three 300- or 400-level electives

Four hours of:

ENG 460, 464, 465, 466	Senior Seminar	4
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English—Prelaw Major (B.A.)

Special curriculum; major code BA5234

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree in English (BA5231, BA5232) and take relevant electives in other schools and departments. Consult your faculty advisor. Law schools prescribe no special curriculum. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated advisors assigned to help students interested in law careers. For further information, see "Law" in this section of the catalog.

English—Pretheology Major (B.A.)

Special curriculum; major code BA5233

If you plan to enter a theological seminary or do graduate study in religion, it is recommended that you take a broad program, including the following (with suggested minimum quarter hours): philosophy and world religions (12); courses on the texts and history of religions (15); English composition and literature, world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements for the Bachelor of Arts degree and the University General Education Requirements. It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Department of History or Philosophy.

English Minor

Minor code OR5231

The English minor consists of a minimum of 31 hours above 199, including

ENG 250	Intro to Textual Analysis	4
ENG 251	English Lit. to 1688	5
ENG 252	English Lit. 1689–Present	5
ENG 253	Survey of American Lit.	5

Three additional courses above 299

Study of the Environment

The study of the environment includes the physical nature of the planet as well as plant and animal interactions involving other living organisms, space, land, and water. The Departments of Biological Sciences, Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geological Sciences offer programs for preparation in the study of the environment. These programs allow you to develop a fundamental knowledge of the nature of basic environmental parameters; a sense of the complex interactions of living organisms, including humans, on those parameters; and a basis for approaching solutions to problems resulting from this impact. To major in the study of the environment at Ohio University, choose a discipline for intensive investigation (biological sciences, chemistry, environmental and plant biology, geography, geological sciences) and, in consultation with an advisor in that department, develop a program to meet your goals.

The following degree programs are offered:

- 1 Preparation for Environmental Biology (Biological Sciences Emphasis)
- 2 Preparation for Environmental Biology (Plant Biology Emphasis)
- 3 Preparation for Environmental Chemistry
- 4 Preparation for Environmental Geography
- 5 Preparation for Environmental Geology

In addition, the Department of Geography offers an environmental prelaw major.

For the specific requirements of each program, refer to the respective department's listing in this section of the catalog.

The College of Arts and Sciences sponsors the undergraduate Environmental Studies Certificate Program for students who are interested in environmental studies but do not wish to major in the field. The program is available to students in any major within the University. See the Environmental Studies Certificate Program listing in this section for requirements.

Environmental and Plant Biology

For students interested in careers in plant biology, plant pathology, biotechnology, environmental biology, natural resources, conservation, field biology, agronomy, plant breeding, freshwater biology, or cell biology, the Department of Environmental and Plant Biology offers major programs in plant biology, environmental biology, applied ecology, and cell biology and biotechnology, and a research/study abroad program spotlighting different physiographic regions and their plant life. (See Global Studies in Plant Biology.)

Plant Biology Major (B.A. or B.S.)

Major codes BA2111, BS2111

The B.A. degree in plant biology is designed for students interested in the plant sciences who desire a broad liberal education. The flexibility in this program allows for either a minor or second major in another discipline such as economics, business administration, computer science, anthropology, sociology, geography, geological sciences, or biological sciences. If you plan to do graduate studies in plant biology or a related biological science, a B.S. degree (see below) would be more appropriate. Consult a departmental advisor for assistance in selecting a program to prepare you for an advanced degree.

Requirements for the **B.A. degree** require a minimum of 40 PBIO credits, including the following:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2

Additional PBIO courses at 200 level or above to total at least 40 hours, but no more than 72. PBIO 490 credits do not count toward the 40-credit requirement, and a maximum of 2 hours of PBIO 404, 406, and 407 combined may count toward this requirement.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Extrdepartmental requirements

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6

One course from the following:

MATH 163A	Intro to Calculus	4
or MATH 263A	Calculus	
or MATH 266A*	Calculus with Bio App.	4
MATH 250	Intro to Prob. and Stat.	4
C5 210	Programming in C	5
PSY 120	Elem. Statistical Reasoning	4

*preferred option

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Requirements for the **B.S. degree** require a minimum of 52 PBIO hours, including the following:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2

Additional PBIO credit hours at 200 level or above to total at least 52 hours, but no more than 80. A maximum of 8 hours of PBIO 404, 406, 407, and 490 combined may count towards the 52-hour requirement.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Extrdepartmental requirements:

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6
PHYS 201, 202, 203	Intro to Physics	15
MATH 163A, 163B,	Intro to Calculus	7
or MATH 263A, 263B	Calculus	8
or MATH 266A, 266B*	Calculus with Bio App.	8
PSY 221	Statistics for Beh. Sci.	5
or MATH 250	Intro to Prob. and Stat.	4

*preferred option

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Plant Biology Minor
Minor code OR2111

Requirements for a minor in plant biology consist of a minimum of 28 credit hours of coursework in plant biology including PBIO 114, 115, 209, and 211, and at least two courses at the 300 level or above.

Plant Biology—Cell Biology and Biotechnology Major (B.S.)

Special curriculum; major code BS2118

The Department of Environmental and Plant Biology offers this program for students who are interested in pursuing a profession in biotechnology or biology at the cellular or molecular level. It can provide you with a sound basis for a technical career or for graduate study with a view to a career in research or teaching.

Required PBIO courses consist of a minimum 49 hours, including:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 431	Cell Biology	5
PBIO 442	Experimental Anatomy of Plant Development	5
PBIO 450	Biotechnology and Genetic Engineering	4
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2
or PBIO 490	Internship	2

Two additional PBIO courses at 300 level or above.

Required nondepartmental courses:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 490	General Biochemistry	4
CHEM 303, 304, 305, 306, 307	Organic Chemistry, Lab	14
or CHEM 301, 302, 303, 304	Organic Chemistry, Lab	or 11
BIOS 173	Intro to Zoology	1
BIOS 321	Microbiology	5
PHYS 201, 202, 203	Intro to Physics	15
or PHYS 251, 252, 253	General Physics	
MATH 163A, B	Intro to Calculus	7
or MATH 263A, B	Calculus	or 8
or MATH 266 A, B*	Calculus with Bio App.	or 8
PSY 221	Statistics for Beh. Sci.	5
or MATH 250	Intro to Prob. and Stat.	4

*preferred math option

Recommended departmental electives:

PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 418	Writing in the Life Sciences	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Plant Biology—Environmental Biology Major (B.S.)
Special curriculum; major code BS2113

A major in Environmental Biology provides rigorous preparation, potentially leading to graduate-level training and/or entry level jobs in research, teaching, natural resource management, conservation planning, or science administration. You will receive a strong conceptual understanding of environmental and plant biology, competency with important tools and techniques, and a good background in the natural sciences. The program draws on supporting courses in geography, geology, mathematics, animal biology, physics, and chemistry. It is suggested that students completing this major also obtain the Environmental Studies Certificate. Students are expected to do research in the labs of faculty members or carry out an internship. Graduates of this program are working (for example) in urban forestry, directing the ecological restoration of strip mines, teaching in various colleges and universities, and collecting medicinal plants in Africa. Several graduates have gone into environmental law.

This program differs from other environmental science programs at Ohio University in that it focuses on plants, which are the foundation of life on earth and hence critical to an understanding of environmental science. Students graduating with this major will have marketable skills in plant identification, vegetation survey techniques, statistics, experimental design, and applied computer technology.

Required PBIO courses consist of a minimum of 53 hours, including:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 426	Plant Physiological Ecology	5
or PBIO 435	Plant Population Biology	5
or PBIO 436	Plant Community Ecology	5
or PBIO 437	Ecosystem Ecology	4
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2
or PBIO 490	Internship	2

Additional PBIO credit hours at 200 level or above to total at least 53 hours, but no more than 80. A maximum of 6 hours of PBIO 404, 406, 407, and 490 combined may count toward the 53-hour requirement.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Required nondepartmental courses

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6

Any BIOS course of 4 credits or more at 300–400 level (see recommended electives below)

GEOG 201	Environmental Geography	4
GEOG 268	Computer Appl. in Geog.	4
GEOG 370	Geog. Inform. Sys. Applications	4
GEOL 101	Intro to Geology	5
MATH 163A	Intro to Calculus	4
or MATH 263A	Calculus	4
or MATH 266A*	Calculus with Bio App	4
PHYS 201, 202	Intro to Physics	10
PSY 221	Stat. for Behavioral Sci.	5
GEOG 357	Environmental Law	4
or POLS 425	Environ. and Nat. Res. Politics and Policy	4
or POLS 426	Politics of Contemp. Env. Movements	4

*preferred math option

Recommended electives

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 313	Econ. of the Environment	4
BIOS 375	Animal Ecology	5
BIOS 430	Invertebrate Biology	6
BIOS 431	Limnology	5
BIOS 435	Entomology	6
BIOS 477	Population Ecology	4
BIOS 481	Animal Conservation Biol	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 316	Biogeography	4

GEOG 353	Environmental Planning	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 466	Remote Sensing	5

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Plant Biology—Applied Ecology Major (B.S.) Special curriculum; major code BS2115

The Applied Ecology program prepares students for entry-level environmental science jobs immediately after graduation. In addition to providing a strong background in field botany and ecology, the program offers students experience in a variety of marketable skills including plant identification, vegetation survey techniques, GIS, and greenhouse management. Graduates have jobs in environmental monitoring, rare-plant surveys, high school teaching, project management for nonprofit organizations, horticulture, park management, organic farming, and tree care. Students are strongly encouraged to select the internship option, to enhance job prospects. Listings of internship opportunities can be found at the following web sites:

<http://www.thesca.org/>
<http://www.american.org/vista/>
<http://conbio.org/SCB/Services/Jobs/>
<http://biology.duke.edu/jackson/ecophys/tech.htm>
<http://biology.duke.edu/jackson/ecophys/undergrad.htm>

Required PBIO courses consist of a minimum of 55 hours, including:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 309	Plant Systematics & Ohio Flora	6
PBIO 331	Plant Genetics	5
PBIO 322	Tropical Plant Biology	4
or PBIO 426	Physiological Pl. Ecology	5
or PBIO 435	Plant Population Biology	5
or PBIO 436*	Plant Community Ecology	5
or PBIO 437	Ecosystem Ecology	4
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2
or PBIO 490	Internship	2

*Strongly recommended. The vegetation analysis skills taught in PBIO 436 are particularly valuable in the environmental job market.

Additional PBIO credit hours at 200 level or above to total at least 55 hours, but no more than 80. A maximum of 10 hours of PBIO 404, 406, 407, and 490 combined may count toward the 55-hour requirement. It is recommended that the additional courses used to satisfy the 55-hour requirement be selected from PBIO 24B, 307, 310, 410, 412, 420, 426, 435, 436, and 437.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Required nondepartmental courses

BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6
BIOS 220	Conservation and Biodiversity	4

4 additional hours of BIOS courses at 300–400 level (see recommended electives below)

CHEM 121, 122, 123	Prin. of Chemistry	12
or CHEM 151, 152, 153	Fund. of Chemistry	15
GEOL 101	Introduction to Geology	5
PSY 221	Stat. for Behavioral Sci.	5

4 additional hours from GEOL (GEOL 231: Water and Pollution recommended to satisfy this requirement)

GEOG 268	Computer Appl. in Geog.	4
GEOG 370	Geog. Inform. Sys. Applications	4

4 additional hours in GEOG from the following:

GEOG 201	Environmental Geog.	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 316	Biogeography	4
GEOG 353	Environmental Planning	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 466	Remote Sensing	5

Recommended electives

BIOS 375	Animal Ecology	5
BIOS 430	Invertebrate Biology	6
BIOS 431	Limnology	5
BIOS 435	Entomology	6
BIOS 471	Ornithology	6
BIOS 474	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 481	Animal Conservation Biol.	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Environmental Studies Certificate Program

The field of environmental studies encompasses the complex interactions between humans, other organisms, and the biophysical environment. The Environmental Studies Certificate Program is open to students in any major program within the University who want to gain knowledge and understanding about the interdisciplinary field of environmental studies. Completion of this program, which is the equivalent of a minor, results in the awarding of a certificate and is officially recognized on your transcript upon graduation.

You can earn a certificate in environmental studies by completing 32–35 hours of approved coursework selected from the courses outlined below. Many certificate courses currently satisfy both Tier and Arts and Sciences requirements. Further, courses taken as part of an Arts and Sciences major will also count toward fulfilling the certificate. Be advised that some courses require prerequisites, and plan accordingly. Students should take *no more than three courses from any one department*.

Core Requirements (12-13 hours)

GEOG 201 or GEOL 215	Environ. Geography Environ. Geology	4
BIOS 220 or BIOS 275 or BIOS 375 or PBIO 209	Conserv. and Biodiversity Ecology for the 21st Century Animal Ecology Plant Ecology	4 4 5 4
POL5 425	Environmental and Natural Resource Politics and Policy	4

Quantitative Skills (4-5 hours)

Choose an approved course in statistics, such as

ECON 381	Intro to Econ. Statistics and Econometrics	4
GEOG 271	Intro to Stat. in Geog.	4
GEOG 471	Quantitative Methods	

GEOL 205	Stat. Methods in Geol.	4
MATH 250	Intro to Prob. and Stat.	4
MATH 450A	Theory of Statistics	4
PBIO 415	Quantitative Methods	5
PE55 409	Tests and Measurements	4
POL5 483	SP55	4
PSY 221	Stat. for Behavioral Sci.	5
ISE 304	Applied Engineering Statistics	3
IH 400	Industrial Hygiene Sampling and Analysis	

Natural Sciences (8-9 hours)

One chemistry course (any except CHEM 115)

One of the following:

BIOS 221	Basic Microbiology	4
BIOS 376	Field Ecology	4
BIOS 385	Microbial Ecology	3
BIOS 429	Marine Bio'ogy	5
BIOS 431	Limnology	5
BIOS 481	Animal Conservation Biol.	4
CE 353	Basics of Environmental Engineering	
CE 452	Water and Wastewater Analysis	3
CHEM 330	Introduction to Toxicology	4
EH 260	Intro to Environmental Health and Safety	4
EH 310	Water Supply and Wastewater Environmental Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 440	Air Quality and Pollution Control	4
GEOG 302	Meteorology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 417	Landscape Ecology	4
GEOL 231	Water and Pollution	4
GEOL 330	Prin. of Geomorphology	5
GEOL 427	Water Geochemistry	4
GEOL 432	Origin and Classification of Soils	4
GEOL 480	Hydrogeology I	4
PBIO 426	Physiol. Plant Ecology	5
PBIO 435	Plant Population Biology	5
PBIO 436	Plant Community Ecology	5
PBIO 437	Ecosystem Ecology	4

Social Sciences (8-9 hours)

Two courses in two different departments from the following

ANTH 378	Human Ecology	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
EH 275	Environ. and Occupational Health & Safety Regulations	4
GEOG 241	Global Issues in Environ. Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 357	Environmental Law	4
GEOG 358	Geography of Risk	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	The City and the Environment	4
HIST 306	American Environ. History	4
PHIL 335	Environmental Ethics	4
POL5 426	Politics of Environ. Mvt.	4

European Studies

See International Studies.

Foreign Languages and Literatures

See Classics or Modern Languages.

Foreign Service

See Economics, History, or Political Science, Pre-Foreign Service Major.

Forensic Chemistry

See Chemistry—Forensic Chemistry Major.

French

See Modern Languages.

Geography

Geography bridges the natural and the social sciences. It plays an important role today because many of the world's problems require understanding of the interdependence between human activities and the environments, both natural and cultural, in which these activities are carried out. Geography is an attractive major for students because its theories and methods provide analytical techniques applicable to a wide range of questions asked over a broad spectrum of occupations. For students planning to end their formal education with the bachelor's degree, a geography major provides marketable skills and the broad perspectives on environment and society that enable graduates to move beyond entry-level positions. For similar reasons, geography provides a sound foundation for students who plan to enter graduate work in a variety of fields, from geography to business, land use planning, law, and medicine.

In addition to the basic geography major, The Department of Geography at Ohio University offers several specialized curricula: environmental geography, environmental pre-law, geographic information systems, cartography, meteorology, and urban planning. Students also may earn a minor in geography or in meteorology or a certificate in Geographic Information Science (GIS).

Geography Major (B.S. or B.A.)

Major codes BS4231, BA4231

This program affords students flexibility in designing a curriculum that combines the traditions of physical and human geography with analytical and technical skills.

The requirements for a B.S. or B.A. in geography include the following courses:

55 hours of approved geography courses, including:

GEOG 101	Physical Geography	5
GEOG 121	Human Geography	4
GEOG 268	GIS and Mapping Sciences	4
GEOG 271	Intro to Stat. in Geog.	4
GEOG 481A	Senior Seminar	4

One regional course from the following:

GEOG 131	Globalization and the Developing World	4
GEOG 132	Industrial World	4

GEOG 232	Geography of Ohio	4
GEOG 234	Geog. of U.S. and Canada	4
GEOG 330	Geog. of Western Europe	4
GEOG 331	Geography of Africa	4
GEOG 333	Appalachia: Land and People	4
GEOG 334	Historical Geography of the U.S.	4
GEOG 335	Geography of Latin America	4
GEOG 338	Geography of Southeast Asia	4

Two technique courses from the following:

GEOG 360	Cartography I	5
GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 466	Principles of Remote Sensing	5
GEOG 467	Remote Sensing Applications	5
GEOG 468	Cartography III	5
GEOG 474	Application Development in GIS	4
GEOG 475	GIS Modeling and Simulation	4
GEOG 476	Field Methods	4
GEOG 478	Principles of GIS	5
GEOG 479	Geographic Information Analysis	5

At least 30 hours at the 300 level or above. No more than 5 hours each of 485 or 490/494 can count toward the 55 hours in geography. Hours in 486 do not count toward this total. Work with your advisor to develop a plan to complete the University General Education Requirements.

Majors are not permitted to take geography and required courses pass/fail.

Geography Minor

Minor code OR4231

A minor in geography consists of a minimum of 28 hours including GEOG 101, 121, and at least three other courses at the 300 level or above.

Geography—Environmental Geography Major (B.S.) Special curriculum; major code BS4232

This program provides concentrated study of the earth's physical systems and human interactions with the environment. Environmental geography prepares students for careers in environmental planning, design, and restoration, as well as in environmental assessment and monitoring, resource management, natural areas preservation, and outdoor and environmental education. Students completing the program will develop competencies in a broad array of subjects spanning the natural and social sciences, as well as complementary analytical techniques. If you declare the Environmental Geography major, contact the Department as soon as possible so that you may be assigned an advisor.

You must meet all requirements for a geography major for a minimum of 55 hours, including these additional specifications:

GEOG 201	Environmental Geog.	4
GEOG 241	Global Issues	4

Two technique courses from the following:

GEOG 360	Cartography I	5
GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 418	Biogeography Research	4
GEOG 466	Principles of Remote Sensing	5
GEOG 467	Remote Sensing Applications	5
GEOG 468	Cartography III	5
GEOG 474	Application Development in GIS	4
GEOG 475	GIS Modeling and Simulation	4
GEOG 476	Field Methods	4

GEOG 478	Principles of GIS	5
GEOG 479	Geographic Info Analysis	5

Hours over 300 must include four courses from this list:

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 329	World Economic Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 357	Environmental Law	4
GEOG 358	Environ. Risk Assessment	4
GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conserv.	4
GEOG 456	City and the Environment	4

General requirement

CHEM 121, 122, 123 or 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 or 15
MATH 163A, B or 263A, B or 266A, B	Intro to Calculus Calculus Calculus w/Bio. Applications	7 or 8

Recommended electives

PHYS 201, 202, 203	Intro to Physics	15
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Choose at least three courses (portions of the Arts and Sciences natural sciences requirement) from either the Biological Sciences or Earth Sciences group below:

Biological Sciences

PBIO 109	Americans and their Forests	4
PBIO 114*	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 248	Trees and Shrubs	4
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 410	Plants and Soil	4
PBIO 426	Physiol. Plant Ecology	5
PBIO 435	Plant Population Biology	5
PBIO 436	Plant Community Ecology	5
PBIO 437	Ecosystem Ecology	4
BIOS 170,* 171, 172, 173	Intro to Zoology	14
BIOS 220*	Cons. and Biodiversity	4
BIOS 221	Microbes and Humans	3
BIOS 222	Microbes and Humans Lab	2
BIOS 275*	Ecology in the 21st Century	4
BIOS 375*	Animal Ecology	4
BIOS 429	Marine Biology	5
BIOS 431	Limnology	5
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481*	Animal Conserv. Biology	4

*Credit is not awarded for both PBIO 114 and BIOS 170. Credit is not awarded for both BIOS 220 and BIOS 481, or for both BIOS 275 and 375.

Earth Sciences

GEOL 101	Intro to Geology	5
GEOL 211	Intro Oceanography	4
GEOL 215	Environmental Geology	4

GEOL 231	Water and Pollution	4
GEOL 312	Earth Materials and Resources	5
GEOL 330	Prin. of Geomorphology	5
GEOL 427	Water Geochemistry	4
GEOL 432	Origin and Classification of Soils	4
GEOL 439	Fluvial Geomorphology	4
GEOL 471	Advanced Env. Geology	4
GEOL 480	Prin. of Hydrogeology	4
GEOL 481	Groundwater Flow Modeling	4
GEOL 483	Field Hydrology	6

Social Sciences (portion of Arts and Sciences social sciences area requirement)**Required course:**

ECON 103	Prin. of Microeconomics	4
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Select two additional course from the following list:

ANTH 378	Human Eco'ogy	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Resources Econ.	4
HIST 306	American Env. History	4
HIST 333	Oil and World Power	4
POLS 425	Environ. and Natural Resource Politics and Policy	4
POLS 426	Pol. of the Env. Movement	4
POLS 488	Public Dispute Resolution	4

Work with your advisor to develop a plan to complete the University General Education Requirements.

**Geography—Environmental Prelaw (B.S.)
Special curriculum; major code BS4237**

The Geography—Environmental Prelaw Program is designed to prepare you for advanced study of environmental law. The goal of the program is to provide both a sound science background in environmental studies and a broad base of knowledge in the humanities and social sciences.

You must meet all requirements for a geography major for a minimum of 55 hours including these additional specifications/exceptions:

GEOG 201	Environ. Geography	4
GEOG 241	Global Issues	4
GEOG 357	Environmental Law	4

Only one technique course from the following list:

GEOG 365	Air Photo Interpretation	4
GEOG 418	Biogeography Research	4
GEOG 466	Remote Sensing	5
GEOG 476	Field Methods	4
GEOG 478	Principles of GIS	5

Hours over 300 must include 4 courses from this list:

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 325	Political Geography	4
GEOG 329	World Economic Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 358	Environ. Risk Assessment	4
GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	City and the Environment	4

Other Requirements

Work with your advisor to develop a plan to complete the University General Education Requirements.

History and Political Science

Choose 2 courses from the following:

HIST 306	American Environmental History	4
HIST 309A	American Constitutional History, Part 1	4
HIST 309B	American Constitutional History, Part 2	4
HIST 333	Oil and World Power	4
POLS 301	Politics of Law	5
POLS 374	Great Jurists	4
POLS 401	American Constitutional Law	4
POLS 402	American Constitutional Law	4
POLS 404	Civil Liberties	4
POLS 409	Criminal Procedure	4
POLS 410	Public Policy Analysis	4
POLS 413	Administrative Law	4
POLS 420	Women, Law, and Politics	4
POLS 421	Politics of Sexuality	4
POLS 425*	Environmental and Natural Resource Politics and Policy	4
POLS 426	Politics of Contemporary Environmental Movement	4
POLS 455	International Law	4
POLS 477	Legal Theory and Social Problems	4
POLS 488	Public Dispute Resolution	4

Business Law and Economics

Choose 1 course from the following:

BUSL 255	Law & Society	4
BUSL 265	Law of Contractual Relations	4
BUSL 356	Law of the Management Process	4
BUSL 357	Law of Commercial Transactions	4
BUSL 385	International Business Law	4
HIST 306	American Env. History	4
ECON 103	Principles of Microeconomics	4
ECON 313	Economics of the Environment	4
ECON 314	Natural Resources Economics	4

Communication and Philosophy

Choose 1 course from the following:

COMS 103	Fundamentals of Public Speaking	4
COMS 215	Argumentative Analysis and Advocacy	4
COMS 351	Courtroom Rhetoric	4
PHIL 130	Introduction to Ethics	4
PHIL 240	Social and Political Philosophy	4
PHIL 335	Environmental Ethics	4

*strongly recommended

Natural Sciences

Choose at least 3 courses from Biological Sciences (except BIOS 217), Environmental and Plant Biology (except PBO 217), and/or Geology.

General Requirements

CHEM 121, 122, 123	Prin. of Chemistry	12
or CHEM 151, 152, 153	Fund. of Chemistry	or 15
MATH 163A, B	Intro to Calculus	7
or MATH 263A, B	Calculus	or 8

Geography—Geographic Information Science Major (B.S.) Special curriculum; major code BS4235

The goal of the geographic information science program is to provide a technical background for geographers interested in working with business, government, or planning agencies. The emphasis of the program is first, to develop a strong background in the field of geographic information science as practiced in the fields of cartography, remote sensing, and

quantitative methods; and second, to develop cognate skills in areas of computer science, economics, public administration, and the environment.

You must meet all requirements for a geography major for a minimum of 55 hours including these additional specifications:

Geographic Information Science Requirements

GEOG 360	Cartography I	5
GEOG 466	Remote Sensing	5
GEOG 471	Quantitative Methods	4
GEOG 478	Principles of GIS	5

Core Electives

Select any two additional courses from the list below:

GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 467	Remote Sensing Applications	5
GEOG 468	Cartography III	5
GEOG 474	Application Development in Geographic Information Science	4
GEOG 475	GIS Modeling and Simulation	4
GEOG 479	Geographic Information Analysis	5

Applied and Topical Courses

Select any two courses from the list below:

GEOG 315	Landforms and Landscapes	4
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 358	Environmental Risk Assessment	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environmental Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	City and the Environment	4
GEOG 476	Field Methods	4

Suggested Electives

CS 210	Programming in C	5
CS 220	Introduction to Computing	5
CS 230	Computer Programming I	5
CS 309	C++ for Non-majors	4

Certificate in Geographic Information Science (GIS)

Maps remain a fundamental means of geographic communication. The expanding role of the map and related digital information places a premium on the ability to interpret and analyze mapped information. To meet this expanded role, the advancement of Geographic Information Science (GIS) is seen as the important synthesis of traditional mapping with the more advanced tools of data modeling and analysis to provide new and enhanced information on geographic topics. The power in GIS is the use of spatial analysis techniques to analyze geographic information. The Undergraduate Certificate in GIS requires that students complete a rigorous interdisciplinary set of courses; in addition to "core" GIS and cartography courses, students are required to complete coursework in statistics, computer applications, programming, database management, as well as a capstone internship project utilizing their GIS skills. The Certificate is open to all students with the exception of Geography majors. Geography students wishing to pursue advanced training in GIS should consider the Geography-GIS major.

Prerequisite Courses (2 courses)

Statistics—Choose one course from the following (3–5 hours)

ECON 381	Introduction to Economic Statistics and Econometrics	4
ISE 304	Applied Engineering Statistics	3
GEOG 271	Intro to Statistics in Geography	4
GEOL 205	Statistical Methods in Geology	4
MATH 250	Intro to Probability and Statistics	4
PSY 221	Statistics for Behavioral Sciences	5

Computer Applications—Choose one course from the following (3–4 hours)

BMT 200	Introduction to Business Computing	4
CS 120	Computer Literacy	4
CTECH 125	Introduction to Computers	4
GEOG 268	GIS and Mapping Sciences	4
IT 103	Computer App. in Industrial Technology	4
MIS 201	Introduction to Microcomputers	3

Core Courses (3 courses)

GEOG 360	Cartography I	5
GEOG 466	Principles of Remote Sensing	5
GEOG 478	Principles of GIS	5

Support Courses (2 courses)

Programming—Choose one course from the following (5 hours):

CS 210	Programming in C	5
CS 230	Computer Programming I	5
GEOG 474	Application Development in GISc	4

Database Management—(4 hours)

MIS 235	Advanced Microcomputer Database Applications	4
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Capstone Course (1 course)

GEOG 485A	GIS Certificate Internship	5
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Geography—Meteorology Major (B.S.)**Special curriculum; major code BS4238**

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics can prepare you for graduate training in meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see departmental listings in this section). If you choose the geography emphasis, contact the Department of Geography for advising. The major in geography requires a minimum of 45 hours.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Physical Geography	5
GEOL 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

Sophomore

GEOG 201	Environ. Geography	4
GEOL 211	Oceanography	4
MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observ. in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics	8

PHYS 411	Thermodynamics	4
	English Composition	4

Senior

GEOG 406	Intro to Synoptic Meteorology	5
GEOG 407	Adv. Synoptic Meteorology	5
PHYS 414	Dynamic Meteorology I	4
PHYS 415	Dynamic Meteorology II	4

Two courses in computer programming or quantitative methods (see advisor for approved list) and:

Geography emphasis requirements

GEOG 121	Human Geography	4
GEOG 315	Landforms and Landscape	5
or GEOG 316	Biogeography	or 4
or GEOG 411	Adv. Physical Geography	
GEOG 360	Cartography I	4
or GEOG 365	Air Photo Interpretation	

Work with your advisor to develop a plan to complete the University General Education Requirements.

Geography/Meteorology Minor**Minor code OR4233**

A minor in meteorology consists of a minimum of 28 hours including GEOG 101, 121, 302, 304, 305, 406, 407.

Geography—Urban Planning Major (B.S.)**Special curriculum; major code BS4234**

This special curriculum is designed to provide some of the basic academic requirements for a career in urban planning in the United States. While working toward a conventional B.S. in geography, you will take certain required courses and select from an approved list of electives (both inside and outside the Department of Geography) that emphasize legal, social, political, and historical aspects of the planning profession. These courses simultaneously fulfill some of the department and college requirements. The distinctiveness of the curriculum comes from the direction you are given and the preselection of courses in which you may enroll; these elements separate the special curriculum from the general geography program. To enroll in the preparation for urban and regional planning major, contact the chair of the Department of Geography as soon as possible, preferably not later than the beginning of your sophomore year.

The majority of job opportunities for planners are with government agencies at the local, state, and federal levels. Their activities largely concern administration and implementation of federal programs, and continued funding depends upon congress. While a bachelor's degree can provide initial entry into the profession, job descriptions usually specify a master's degree. It is recommended that you continue toward such a degree, which involves an additional two years of study and is offered by more than 70 American universities.

You must meet all requirements for a geography major with these additional specifications:

GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
GEOG 456	The City & the Environment	4

Two of the following:

GEOG 327A	Social Geographics	4
GEOG 329	World Economic Geography	4
GEOG 353	Environmental Planning	4
GEOG 455	Evolution of Planning	4

Choice of two technique courses from the following:

GEOG 360	Cartography I	5
GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 466	Remote Sensing	5

GEOG 468	Cartography III	5
GEOG 478	Principles of GIS	5

Three of the following:

GEO 101	Intro to Geology	5
GEO 231	Water and Pollution	4
GEOG 315 or GEO 330	Landforms and Landscapes Prin. of Geomorphology	5
GEOG 316	Biogeography	4
GEOG 417	Landscape Ecology	4

Other Departments (two courses)

Except for MGT 202, these courses currently fulfill the social sciences area requirement of the College of Arts and Sciences.

ECON103 or ECON 303	Prin. of Microeconomics Microeconomics	4
ECON 104 or ECON 304	Prin. of Macroeconomics Macroeconomics	4
HIST 312	U.S. Urban History	4
MGT 202	Management	4
POLS 320	Urban Politics	4
SOC 424	Urban Sociology	4

Work with your advisor to develop a plan to complete University General Education Requirements.

Electives

Try to take the remaining credit hours necessary for graduation from the following:

BUSL 442	Law of Property and Real Estate	4
ECON 213	Current Economic Prob.	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 360	Money and Banking	4
HIST 317A	Ohio History to 1851	4
HIST 317B	Ohio History Since 1851	4
POLS 101	American Nat. Govt.	4
POLS 102	Issues in Amer. Politics	4
POLS 210	Princ. of Public Admin	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4
POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Resource Politics and Policy	4
PSY 335	Environmental Psych.	5
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 230	Sociology of Poverty	4
SOC 425	Sociology of Aging	4
SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Inst.	4
SW 395	Aging in the Welfare State	4

Outside the College of Arts and Sciences

EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 320	Shelter Environments	4
HREC 310	Prog. Planning and Facil. for Recreation	5
COMS 205	Group Discussions	4
COMS 304	Prin. and Tech. of Interviewing	4
REAL 101	Real Estate Prin. and Prac.	4
REAL 201	Real Estate Appraising	4
REAL 204	Real Estate Finance	4

Geological Sciences**Geological Sciences Major (B.S.)****Major code BS3321**

Required courses for the B.S. degree in minimum preparation for a professional career in geological sciences or entry into graduate school include 62 hours of geology:

A. Requirements in Geological Sciences**Introductory course (5 credit hours)**

Choice of:

GEO 101	Intro to Geology	5
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Or

GEO 202	Introductory Geology Lab (1)	
Plus one of the following: GEO 120, 130, 170, 211, 215, 221, 231 (4)		

And:

Core Courses (57 credit hours)

GEO 205	Statistical Methods in Geology	4
GEO 255	Historical Geology	4
GEO 315	Mineralogy	5
GEO 320	Petrology	4
GEO 330	Principles of Geomorphology	5
GEO 340	Prin. of Invertebrate Paleontology	4
GEO 350	Stratigraphy-Sedimentology	4
GEO 360	Structural Geology	5
GEO 420	Petrography	5
GEO 446	Earth Systems Evolution	4
GEO 466	Geodynamics	4
GEO 475A	Field Geology I	4
GEO 475B	Field Geology II	5

• Three additional 400 level classes (or a senior thesis and two 400-level electives) (12 credit hours)

B. Extradepartmental Requirements

Students must take both Chemistry and Math (20–23 credit hours)

CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry I, II, III Fundamentals of Chemistry I, II, III	12 or 15
MATH 263A, 263B or MATH 266A, 266B	Calculus I, II Calculus w/ Applications to Biology I, II	8 or 8

Students may take either of the Physics or Biology options below (10–15 credit hours)

PHYS 201, 202 or 251, 252, 253	Introduction to Physics General Physics	10 10–15
or 251, 202 or BIOS 170, 171, 172	Introduction to Zoology	13

*Discuss the selection of an appropriate physics sequence with your advisor. PHYS 203 may be required for some graduate programs.

Geological Sciences Major (B.A.)**Major code BA3321**

Requirements for the B.A. degree are designed for students interested in applying a general understanding of the geological sciences to such fields as education, library science, technical writing, or other areas where a general knowledge of earth science is desired. They include 52 hours of geology:

A. Requirements in Geological Sciences**Introductory course (5 credit hours)**

Choice of:

GEO 101	Introducton to Geology	5
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Or

GEO 202	Introductory Geology Lab (1)	
Plus one of the following: GEO 120, 130, 170, 211, 215, 221, 231 (4)		

And:

Core Courses (26 credit hours)

GEO 205	Statistical Methods in Geology	4
GEO 255	Historical Geology	4
GEO 330	Principles of Geomorphology	5
GEO 340	Prin. of Invertebrate Paleontology	4

GEOL 350	Stratigraphy-Sedimentology	4
GEOL 360	Structural Geology	5
Students may take either of the following two options for this part of the core course requirement (9 credit hours).		

GEOL 315	Mineralogy	5
And		
GEOL 320	Petrology	4
Or		

GEOL 312	Earth Materials and Resources	5
And		
GEOL 211	Introduction to Oceanography	4

Capstone Course (4 credit hours)

GEOL 466	Geodynamics	4
Or		
GEOL 446	Earth Systems Evolution	4

at least two additional courses at the 400 level (8 credit hours)

B. Extradepartmental Requirements (18 credit hours)

CHEM 121, 122	Principles of Chemistry I, II	8
PHYS 201	Intro to Physics	5
MATH 115	Precalculus	5

Consult the departmental undergraduate advisor regarding appropriate minors to be combined with the B.A. degree.

Geological Sciences Minor**Minor code OR3321**

A minor in geological sciences requires a minimum of 25 hours of coursework in geological sciences to include 101, 255, and a minimum of three courses at the 300–400 level.

Geological Sciences—Environmental Geology Major (B.S.) Special curriculum; major code BS3323

The preprofessional program in environmental geology is designed to provide you with broad training in preparation for a career in conservation, natural resource management, land-use planning, or environmental quality control. In most instances, you should anticipate further training at the graduate level. Consult with the undergraduate advisor in the Department of Geological Sciences before planning your schedule of coursework.

The courses listed below constitute the departmental requirements for this program. Schedule additional courses to fulfill Arts and Sciences and University General Education Requirements.

Major courses include 54 hours of geology:**Introductory course (5 credit hours)**

Choice of:		
GEOL 101	Introduction to Geology	5

Or
GEOL 202 Introductory Geology Lab (1)
Plus one of the following: GEOL 120, 130, 170, 211, 215, 221, 231 (4)

And:

Core Courses (52 credit hours)

GEOL 205	Statistical Methods in Geology	4
GEOL 255	Historical Geology	4
GEOL 315	Mineralogy	5
GEOL 320	Petrology	4
GEOL 330	Principles of Geomorphology	5
GEOL 340	Prin. of Invertebrate Paleontology	4
GEOL 350	Stratigraphy-Sedimentology	4
GEOL 360	Structural Geology	5
GEOL 427	Water Geochemistry	4
GEOL 429	Contaminant Geochemistry	4
GEOL 480	Principles of Hydrogeology	4
GEOL 475A	Field Geology I	4
GEOL 475B	Field Geology II	4

Natural Science courses (22–26 credit hours)**Option 1 (22 credit hours)**

BIOS 220	Conservation and Biodiversity	4
BIOS 221, 222	Microbes and Humans	6
CHEM 121, 122, 123	Principles of Chemistry I, II, III	12

Option 2 (26 credit hours)

CHEM 151, 152, 153	Fundamentals of Chemistry I, II, III	15
CHEM 301, 302	Organic Chemistry	3
MATH 263A, 263B	Calculus I, II	8

Or
MATH 266 A, 266B Calculus w/ Applications to Biology I, II 8

Any of the Physics or Biology options below (10–15 credit hours)

PHYS 201, 202	Intro to Physics	10
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Or
PHYS 251, 252, 253 General Physics 15

Or
PHYS 251, 202 Physics 10

Or
BIOS 170, 171, 172 Introduction to Zoology 13

Social Science courses (13 credit hours)

ECON 313	Economics of the Environment	4
or ECON 314	Natural Resource Economics	

GEOG 357	Environmental Law	4
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GEOG 478	Principles of Geographic Info. Systems	5
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A minimum of two courses from the following list:

BIOS 376	Field Ecology	4
BIOS 431	Aquatic Ecology	5
CHEM 325	Instr. Methods of Analysis	4
CHEM 431	Chemical Separation Methods	3
CHEM 432	Chem. Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 466	Principles of Remote Sensing	5
GEOG 467	Remote Sensing Applications	5
GEOL 432	Origin and Classification of Soils	4
GEOL 453	Physical Limnology	4
GEOL 476	Subsurface Methods	4
GEOL 481	Groundwater Flow Modeling	4
GEOL 485	Intro to Applied Geophysics	4
PBIO 410	Plants and Soils	4
PBIO 425	Physiological Plant Ecology	5

Social Science

ECON 313	Econ. of the Environment	4
ECON 314	Natural Resource Economics	4
ECON 335	Economics of Energy	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 365	Air Photo Interpretation	5
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	5
GEOG 475	GIS Modeling and Simulation	4
GEOG 479	Geographic Information Analysis	5
POLS 425	Environ. and Natural Res. Politics and Policy	4

German

See Modern Languages.

Gerontology Certificate Program

The Colleges of Arts and Sciences and Health and Human Services jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program within

the University who want to gain knowledge and skills for a career in working with the elderly. Completion of this program is officially recognized on your transcript upon graduation.

See the College of Health and Human Services section for Gerontology Certificate Program requirements.

Global Leadership Center

For information about the Global Leadership Center, refer to the program description in the College of Communication section or visit <http://www.ohio.edu/glc/>.

Global Studies in Plant Biology

One of only a few programs in the United States to integrate study abroad with opportunity for research by undergraduate natural science majors. Although the ecological and geographic theme will change from year to year, the program is designed to spotlight physiographic regions and their plant life through a series of three interrelated courses: an introductory seminar, an intensive international field course, and a laboratory research course. Contact the Department of Environmental and Plant Biology, or visit the Global Studies in Plant Biology Web site: <http://oak.cats.ohio.edu/~ballardh/globalstudies/>.

Greek

See Classics and World Religions

History

History Major (B.A.)

Major code BA4211

The major requirement for the B.A. degree consists of a minimum of 56 hours. This total includes:

132	Intro to Non-Western History to 1750	4
133	Intro to Non-Western History Since 1750	4
200	Survey: U.S. History, 1600-1865	4
201	Survey: U.S. History, 1865-present	4

8 hours from either of the following series:

(courses selected must be "adjacent," e.g., 103 and 102, or 122 and either 121 or 123)

101	Western Civ. in Modern Times (Renaissance-1648)	4
102	Western Civ. in Modern Times (1648-1848)	4
103	Western Civ. to Modern Times (1848-Present)	4 or
121	Western Heritage: Classical	4
122	Western Heritage: Medieval	4
123	Western Heritage: Modernity	4

32 hours at the 300-400 level, including

301J	Historical Research and Writing	4
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(You are strongly urged to complete 301J early in your junior year.)

Select ONE of the following areas and complete three courses (12 hrs). ALSO, complete four additional courses (16 hrs) by choosing TWO courses from EACH of the remaining areas.

Europe: Must include one course on material predominantly before 1500, one from 1500-1800, and one course after 1800.

Non-western (Latin America, Middle East, Africa, Asia): Must include one course on material predominantly before 1800, one from the 19th century, and one course from the 20th century.

North America (Canada, United States): Must include one course before 1800, one from the 19th century, and one course from the 20th century.

With the help of your advisor, you will need to develop a coherent plan of study. The emphasis will be to select courses that inter-relate within a particular area. Your advisor will be critical to your success in choosing an appropriate plan of study.

Students with g.p.a.'s of 3.0 and above will be informed about internship opportunities or encouraged to write a senior honors thesis.

History Minor

Minor code OR4211

A minor in history consists of a minimum of 28 hours, including at least 8 hours at the 100-200 level and at least 16 hours at the 300-400 level.

History Pre-Foreign Service Major (B.A.)

Special curriculum; major code BA4212

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

History—Prelaw (B.A.)

Special curriculum; major code BA4214

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see Law in this section.

History—Pretheology Major (B.A.)

Special curriculum; major code BA4213

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following (with minimum credit suggested in each area): world religions (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354A, 354B, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the University General Education Requirements. It is advisable to major in world religions, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major also is available from the Departments of English and Philosophy.

Center for International Studies

Jointly administers a Bachelor of Arts in International Studies with the College of Arts and Sciences. For non-majors the center offers certificates in:

African Studies

Asian Studies

European Studies

Latin American Studies

International Studies

For additional information on International Studies, see the Center for International Studies section.

The Bachelor of Arts in International Studies (BAIS) seeks to prepare students for international competence, which involves understanding other peoples and societies well enough to be able to work effectively on a broad range of common problems. It calls for the education and training to become proficient in a language other than their own and to understand the history, culture, goals, aspirations and worldview of the people speaking that language.

The program of study leading to the Bachelor of Arts in International Studies aims to provide students with the skills to interact competently with people from other cultures through the development of: (a) cross cultural literacy—the direct experience of another culture via a study abroad experience, the achievement of a high level of proficiency in a second language, and the ability to compare and contrast issues in different regions and cultures of the world; (b) environmental literacy—the study of a world region outside the United States (Africa, Asia, Europe, Latin America) in depth through its history, geography, politics, societies, economics, fine and performing arts, and popular culture with special attention to the issues of gender, class, ethnicity, and race; and (d) critical thinking—expressed both in writing and orally in English and also in a second language.

Throughout this program of study, students are also expected to develop information processing skills which enable them to seek, sort, analyze, and evaluate information as well as apply information to the solution of problems.

Admission to the Major

Students who satisfy Arts and Sciences admission criteria are admitted as "pre-majors" (major code ND4404) to work on the following major prerequisites:

- 1 Complete a three-course sequence that includes POLS 250—International Relations, ANTH 101—Cultural Anthropology, and one of the following: INST 103—Asian Studies, INST 113—African Studies, INST 118—European Studies, or INST 121—Latin American Studies) with a B-average for the three classes.
- 2 Students must receive a B average for the first three language courses completed at Ohio University. The language chosen must match their area of study: Swahili and French for Africa; Chinese, Indonesian, or Japanese for Asia; French, German, Russian, or Spanish for Europe; and Spanish for Latin America. You may contact the BAIS coordinator to petition the BAIS committee to receive approval to use languages other than those listed above to satisfy the language requirement.

Requirements for the Undergraduate Major in International Studies

The Bachelor of Arts in International Studies is an interdisciplinary major within the College of Arts and Sciences, and requires the completion of all Arts and Sciences College requirements. Major requirements consist of a minimum of 61 quarter hours of course work, including 33 hours in courses of a broad cross-cultural or international nature and 28 hours on a single world region.

Language Requirement

To graduate with a Bachelor of Arts in International Studies, students must demonstrate proficiency in reading, speaking, and in some cases, writing a language related to their area of concentration. To determine language proficiency,

students must take an oral proficiency examination and attain the level specified for that language. The language chosen must match their area of study: Swahili, French, and Arabic for Africa; Chinese, Indonesian, or Japanese for Asia; French, German, Russian, or Spanish for Europe; and Spanish for Latin America. Students may contact the BAIS coordinator to petition the BAIS committee to receive approval to use languages other than those listed above to satisfy the language requirement.

Education Abroad Requirement

Students majoring in International Studies are required to have a minimum of one quarter of education abroad in the area of the world in which they are concentrating and where their language of study is spoken. The primary goals of education abroad are to increase language competency and to gain exposure to the culture of the world region on which the student is concentrating. It is strongly recommended that students study abroad after completing the equivalent of at least two years of language study. Before going abroad, students must complete a Foreign Study checklist in consultation with the BAIS coordinator and the Office of Education Abroad.

International Studies (33 hrs)

ANTH 101*	Cultural Anthropology
POLS 250*	International Relations

Comparative/International Studies 3-courses out of one of the following areas:

A. Comparative Institutions and Ideologies

AA5 364	Comparative Study in Injustice
ANTH 350	Economic Anthropology
ANTH 351	Political Anthropology
ANTH 357	Anthropology of Religion
CLWR 181	Intro to Religion
GEOG 336	Geography of Religious Space and Place
PHIL 440	Contemporary Social
POLS 340	Politics of Developing Areas
POLS 490**	

B. Comparative Cultures

ANTH 340	Applied Anthropology
ANTH 345	Gender in Cross-Cultural Perspectives
ANTH 350	Economic Anthropology
ANTH 351	Political Anthropology
ANTH 353	Anthropology of Violence and Peace
ANTH 357	Anthropology of Religion
ANTH 376	Culture Contact and Change
FILM 421F	International Film
MUS 369R	Intro to World Music

C. Business

BA 385	Multinational Business
BUSL 385	International Business Law
MGT 484	International Comparative Management

D. Political Economy (choose any three)

ANTH 350	Economic Anthropology
ANTH 376	Culture Contact and Change
ECON 312F	Economics of Poverty
ECON 350	Economic Development
GEOG 329	World Economic Geography
HIST 327	Slavery in the Americas
POLS 490**	
WS 410	Global Feminism
WS 411	Women and Globalization

E. International Relations

GEOG 131	Global Developing World
POLS 455	International Law
POLS 456	International Organizations
POLS 490**	

Environmental Literacy**3 courses out of one of the following areas:****A. Ecology/Conservation Biology**

BIOS 220	Conservation and Biodiversity
BIOS 275	Animal Ecology
GEOG 417	Landscape Ecology
PBIO 209	Plant Ecology
PBIO 322	Tropical Plant Ecology

B. Water, Land, and the Oceans

GEOG 201	Environmental Geography
GEOG 315	Landforms and Landscapes
GEOG 417	Landscape Ecology
GEOL 211	Intro to Oceanography
GEOL 231	Water and Pollution
GEOL 303	Marine and Tropical Field Studies
GEOL 330	Principles of Geomorphology

C. Environment and Society

ANTH 378	Human Ecology
GEOG 241	Global Environmental Issues
GEOG 321	Population Geography
GEOG 353	Environmental Planning
ECON 313	Economics of the Environment

Area Studies (28 hrs)**Options: Africa, Asia, Europe, Latin America.****Africa (B.A.)****Special curriculum; major code BA4405****Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.**

AAS 250	African American Arts and Culture
ANTH 351	Political Anthropology
ANTH 357	Anthropology of Religion
ANTH 370**	
ANTH 381	Cultures of Sub-Saharan Africa
CLWR 311	Islam (2C)
CLWR 471	African Religions
DANC 495D	African Dance
ECON 312	Economics of Poverty
ECON 350	Economics of Development
EDCS 205	Learning from Non-Western Cultures
FR 454	Francophone Lit. of Sub-Saharan Africa, Maghreb, and the Caribbean
GEOG 331	Geography of Africa I
HIST 332	History Women Middle East
HIST 335 A/B	Survey of Middle East History
HIST 337A	Middle East 600–1500
HIST 337B	Middle East 1500–1800
HIST 337C	Middle East Since 1800
HIST 338	History of West Africa
HIST 338A	History of East Africa
HIST 341B	Africa During the Slave Trade
HIST 341C	Modern Africa, 1890–Present
HIST 342A/B	South Africa
HIST 441	Studies in African History
INST 113*	Modern Africa
MUS 369S	OU African Ensemble
PHIL 440	Contemporary Social Philosophy

PHIL 478	African Philosophy
POLS 340	Politics of Developing Areas
POLS 441	Govt. and Politics of Africa
POLS 463	The U.S. and Africa
THAR 473	Theatre History Topic (only when Africa focus)

Asia (B.A.)**Special curriculum; major code BA4406****Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.**

ANTH 370**	
ANTH 380	Cultures of South Asia
AH 341	History of Chinese Art
AH 342	Art of 20th Century China
ANTH 385	Cultures of SE Asia
ANTH 386	Problems in Southeast Asian Anthropology
CLWR 311	Islam
CLWR 321	Hinduism
CLWR 331	Buddhism
CLWR 341	Taoism
CLWR 442	Confucianism
ECON 473	Economics of SE Asia
FILM 473	International Horror Film (only when taught by Adam Knee)
GEOG 338	Southeast Asia
HIST 246	Modern Asia
HIST 345A/B/C	Southeast Asian History
HIST 346E	Modern China since 1911
HIST 348A	Traditional Japan
HIST 348B	Modern Japan
HIST 449	Studies in Modern E Asian History
ILL 345	Modern Literature of SE Asia
INST 103*	Modern Asia
INST 350	Focus on Malaysia
INST 490	Tun Razak Seminar
JPC 250	Intro to Japanese Culture
JPC 450	Japan: A Sociocultural Interpretation
JPC 348	Readings in Japanese Culture
POLS 490**	

Europe (B.A.)**Special curriculum; major code BA 4407****Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.**

ANTH 372**	
AH 327	Art of the 19th Century
ECON 353	European Economic History
FR 345	Business French
FR 348	French Civilization and Culture
FR 354/55/56	Intro to Reading French Lit.
FR 433	20th Century French Lit.
FR 434	French Through Film
FR 435**	Proseminar
GEOG 330	West European Geography
GER 348	German Civ. and Culture
GER 355/56	Intro to German Lit.
GER 429	20th Century German Lit.
GER 433	German Lyric Poetry
GER 441	Stylistics
HIST 265A	Nazi Germany
HIST 360A	Women in Early Mod. Europe
HIST 360C	Women in European History

HIST 362A/B	Europe 1814-1914
HIST 364A	Europe Between the Wars
HIST 364B	Contemporary Europe
HIST 366A/B	France
HIST 368A/B	Germany in 20th Century
HIST 372C	The Balkans
HIST 374A	Balance of Power
HIST 374B	History of International Diplomacy 1914-1939
HIST 375	World War I
HIST 377	Holocaust
HIST 382A/B/C	Russia
HIST 382D	The USSR in World War II
HIST 383B	Modern Poland
HIST 392C	20th Century Britain
HIST 392D	The British Empire
HIST 396A/B	European Intellectual and Cultural History
HIST 463	Studies in 19th Century Europe
HIST 467	Studies in Modern France
HIST 483	Russian and Soviet History
ILML 334	Portuguese and Spanish Lit in English
ILML 335A	Italian Literature in English
ILML 336B	Spanish Lit in English (when topic is literature from Spain)
ILML 337A	French Lit. in English
ILML 338A/B	German Lit. in English
ILML 338C	German Lit. in English
ILML 339A/B	Russian Lit. in English
ITAL 341	Advanced Conversation and Composition
ITAL 342	Advanced Conversation and Composition
ITAL 348	Italian Civilization and Culture
INST 118*	Europe
PHIL 444	Philosophy of Marxism
PHIL 458	Contemporary European Philosophy
POLS 331	Politics in Western Europe
POLS 333	Politics in Eastern Europe
POLS 432	Policy Making in Russia
POLS 433	Russian Foreign Policy
POLS 438	Govt. and Pol. of Germany
POLS 439	Politics in France
POLS 490**	
RUS 348/49	Russian Civilization and Culture
RUS 355/56	Intro to Russian Literature
RUS 429	Russian Lit of the Soviet Era
RUS 441	Stylistics
SPAN 345	Business Spanish
SPAN 348	Spanish Civ and Culture
SPAN 438	Dialectology
SPAN 354/55/56	Dramatizations of the Hispanic World (when focus is peninsular)
SPAN 425	19th Century Spanish Literature I
SPAN 427	19th Century Spanish Literature II
SPAN 432	20th Cent. Spanish Lit
SPAN 438	Hispan. Dialect and Sociolin
SPAN 439	Modern Spanish Usage
SPAN 441	Stylistics
SPAN 453	Drama of the Golden Age
SPAN 455	Novel of the Golden Age
SPAN 458	Don Quijote de la Mancha

Latin America (B.A.)**Special curriculum; major code BA 4408**

Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.

AH 331	Pre-Columbian Art
ANTH 367	South American Prehistory
ANTH 370	Mexican/Cen American Prehistory
ANTH 372**	
ANTH 383	Cultures of Latin America
ECON 474	Economics of Latin America
ILML 334	Portuguese and Brazilian Lit in English (when topic is Brazilian literature)
ILML 336	Span. Lit. in English (when topic is Latin American literature)
GEOG 335	Latin America
HIST 323A/B/C	Latin America
HIST 325	U.S.-Latin American Relations
HIST 327	Slavery in the Americas
HIST 424	Studies in the History of U.S.-Latin American Relations
HIST 426	Dictatorships in Lat. Amer.
HIST 427	Studies in Recent Lat Amer History
ILML 336	Spanish Lit. in English (when topic is Latin American Lit.)
INST 121*	Latin America Survey
POLS 434	Government and Politics of Latin America
POLS 435	Revolutions. in Latin America
POLS 479	Latin American Political Thought
POLS 490**	
SPAN 345	Business Spanish
SPAN 349	Spanish American Civ. and Culture
SPAN 350	Mexican Civilization and Culture
SPAN 351	Mayan Civilization and Culture
SPAN 352	Yucatecan Civilization
SPAN 354/55/56	Dramatizations of Hispanic World (when topic is Latin American literature)
SPAN 438	Dialectology
SPAN 439	Modern Spanish Usage
SPAN 441	Stylistics
SPAN 443/4	Survey of Spanish-American Lit
SPAN 447	Themes from Spanish-American Prose
SPAN 448	Cont Spanish-American Lit

*Required course

**Check with department prior to registering

International Studies Certificate Program

The Center for International Studies offers certificates in African, Asian, European, and Latin American Studies for students who wish to add an international dimension to their major, or who are interested in an international career or graduate work in area studies. The certificate is noted on your transcript upon graduation.

You must take an introductory interdisciplinary area studies course (INST 103, 113, 118, or 121) appropriate to the certificate you are pursuing and achieve an overall g.p.a. of 2.5 in courses taken toward the certificate.

Additional requirements for the European or Latin American Certificate are: five courses relating to Europe or Latin America in a minimum of three disciplines, study of a relevant language through the intermediate level, and an overall g.p.a. of 2.5 in courses taken toward the certificate.

Additional requirements for the Asian or African Certificate are: eight courses in either of two options: 1) Three courses must be in an African or Asian Language and the other five, in a minimum of three disciplines, must relate to Africa or Asia. 2) The eight courses must relate to Africa or Asia with no language requirement.

Italian Studies Certificate Program

The Italian Studies Certificate is an interdisciplinary and complementary course of study open to students from any undergraduate degree. The aim of the Italian Studies Certificate is to provide an introduction to the rich and varied culture of Italy by exploring it through a variety of disciplines and subjects. These subjects include literature, history, archaeology, art, cinema, and political thought. Knowledge of the Italian language, both written and spoken, is important for an understanding of Italian culture and is therefore a core element to earning the certificate. The certificate requires 24 credits, which you must select from the following departments: Modern Languages, History, Classics, and Art History.

Required core classes:

ITAL 341	Adv. Italian Conversation and Composition	4
ITAL 342	Adv. Italian Conversation and Composition	4
ILML 335	Topics in Italian Lit/Film (in translation)	4
		Total: 12

Electives:

You must choose three elective courses from the following two groups (at least one course from each group) for a total of 12 credits.

Group 1:

AH 323	Italian Renaissance Art	4
AH 425	High Renaissance and Mannerism	4
AH 300X	European Art	4
AH 323X	Italian Renaissance Art	4
AH 326X	The Baroque	4
AH 340X	Art and Ideas in Painting	4
AH 425X	High Renaissance	4
ILML 335	Various Topics in Italian Literature and Film, repeatable for credit	4
HIST 356A	The Italian Renaissance	4

Group 2:

CLAR 212	Roman Archaeology	4
CLAR 362	The Archaeology of Roman Cities	4
CLAR 352X	Ancient Rome: Development of the City	4
CLAS 254	Rome Under the Caesars	4
CLAS 401 or CLAS 401X	Life of the Romans	4
HIST 329C	Ancient Rome	4

Although they do not count toward certificate requirements, you are encouraged to select a Tier III from the following list:

404A	Reconstructing Roman Slavery	4
410B	The Age of Michelangelo	4
496M	The Renaissance in Machiavelli	4

Latin

See Classics and World Religions.

Latin American Studies

See International Studies.

Preparation for Law

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. You may complete a major in the area of your principal interest. Select courses from as many of the following as possible: English composition and literature and American literature; history, especially for English and American; political science; economics; sociology; a laboratory science; mathematics; philosophy, including ethics and logic; accounting; psychology; and a foreign language. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Departments of Economics, English, History, Philosophy, Political Science, and Sociology and Anthropology designate prelaw faculty advisors. These advisors have information about the Law School Admission Test and can supply applications. See the respective department listings in this section for specific information about major requirements. A further opportunity is the environmental prelaw major offered by the Department of Geography. See Geography—Environmental Prelaw for information. The Department of Philosophy offers an opportunity to prepare for the study of law through a program emphasizing logic and the analysis of social, political, and legal thought. See Philosophy—Prelaw Major. The Prelaw program in the Department of Political Science centers on the Law, Justice, and Political Thought track which offers a liberal arts overview for undergraduate prelaw students, as well as those studying political theory and legal institutions from a broader perspective. See Political Science—Prelaw major.

The Ohio Supreme Court has ruled that to enter law school you must be able to show possession of an undergraduate degree from an approved college if you wish to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students, regardless of the state in which they plan to take the bar examination.

The degree *in absentia* privilege is available if you do not plan to seek admission to an Ohio law school. After you have completed 144 quarter hours at Ohio University with a g.p.a. of 2.0 or above on all hours attempted, and have satisfied the requirements for a B.A. or B.S., you may obtain the degree after completing, at an accredited school of law, a full year's work of the quality prescribed for a bachelor's degree at Ohio University, provided you are eligible for advancement without condition to the second year of law school. Before entering the school of law, you must secure a statement in writing from the dean giving you the *in absentia* privilege.

Linguistics

Linguistics Major (B.A.)

Major Code BA5290

The requirements for a major in linguistics consist of **45 credit hours beyond 270; 30 hours must be in core linguistics courses, and 15 hours are to be chosen from other linguistics courses and clustered to form a concentration.** Possible concentrations include teaching English as a second or foreign language, the use of computers in language teaching, sociolinguistics, psycholinguistics, and theoretical linguistics. In addition, courses in the social sciences, humanities, education, communications, and computer science are recommended as external electives. Knowledge of a foreign language equivalent to three years of college-level study is required; one language may be studied for all three years, or a different language may be studied in the third year.

Transfer of credits from other programs or departments at Ohio University will be accepted upon approval of the department chair. Required core courses are the following:

LING 275 or LING 280	Intro. to Lang. and Culture Language in America	4 4
LING 350 or LING 351	Intro. to Linguistics Fundamentals of Linguistics	5 5
LING 330 or LING 475	Intro. to Psycholinguistics Theories of Lang. Learning	4 4
LING 460	Phonology	5
LING 470	Syntax	4
LING 485	Historical Linguistics	4
LING 495	Directed Research	4

To concentrate in teaching English as a second or foreign language, you must also take:

LING 410	Lang. Teaching Practicum	3
LING 475	Theories of Lang. Learning	4
LING 480	TEFL Theory and Methods	4
LING 482	Materials in TEFL	4

Linguistics Minor **Minor code OR5290**

A minor in linguistics requires a minimum of 24 hours, with at least two courses at the 400 level. Areas of specialization include general linguistics, sociolinguistics, and teaching English as a second language.

Pre-service Teacher Preparation in TEFL

Linguistics also offers a five-course module as pre-service teacher preparation in TEFL (Teaching English as a Foreign Language). The courses include LING 270/350/351, LING 475, LING 480, LING 482, and LING 410. The module can be completed by linguistics majors and non-majors. Also, Linguistics, in cooperation with Latin American Studies, offers coursework toward the TEFL module in Cuenca, Ecuador.

Language and Literature Courses

The Department of Linguistics offers courses in Arabic, Chinese, Indonesian/Malaysian, Japanese, and Swahili. Although no major in these languages is available, a minor is offered in Japanese (see below). If you are working toward an International Studies Certificate or a degree in African or Asian studies, however, you may choose three quarters of an appropriate African or Asian language as part of your course requirements.

The department also offers courses in the literatures of Asia, which may fulfill certain requirements for an International Studies Certificate or a degree in Asian studies. See the index for the specific language, or refer to "Foreign Languages and Literatures" in the Courses of Instruction section, which includes courses in both languages and literature. (Literature courses are listed in the Foreign Languages and Literatures section under International Literature: Linguistics).

Japanese Minor **Minor code ORJAPN**

A Japanese minor requires a minimum of 24 hours of language (JPN) courses beyond 213 with a grade of C (2.0) or better in each course. There are no specific course requirements, but you should observe prerequisites. Consult with the Department of Linguistics (Gordy 383) to develop a minor.

Mathematics

Mathematics Major (B.S. or B.A.) **Major codes BS3101, BA3101**

The requirement for the B.A. or B.S. in mathematics is 50 quarter hours in courses numbered 200 or above, 16 hours

of which must be chosen from courses numbered 306 and above (exclusive of 490 and 491), all taken for grade. For a B.S., you must also complete MATH 314 (or 413A) and MATH 360 (or 460A) as part of your 16 hours chosen from courses numbered above 306.

When planning any program of study in mathematics, it is strongly recommended that you consult an advisor from the department. Also see the programs in Actuarial Science, Preparation for Advanced Training, Applied Mathematics, and Premeteorology listed as special curricula below.

To study mathematics strictly from a mathematician's viewpoint in specially designed courses, inquire about the department's tutorial program. (Standard courses listed in the catalog are designed to serve many departments and purposes.)

To prepare for teacher licensure, seek a broad background in various areas of mathematics, including algebra, analysis, geometry, computer science, probability, and statistics. In addition to the course requirements listed by the College of Education, suggested electives include MATH 343, 360, 406, 443, 450A, 450B, and 450C. Please seek assistance at the department office, Morton 321, to consult an advisor in the Department of Mathematics knowledgeable about math education. Together you can plan how to complete the licensure requirements listed under Integrated Mathematics in the College of Education section of the *Catalog*.

See the General Education Requirements listing in the "Graduation Requirements—University Wide" section for Tier I quantitative skills requirements.

Mathematics Minor **Minor code OR3101**

The requirement for a minor in mathematics is 30 quarter hours in mathematics courses numbered above 200, including 10 quarter hours of courses numbered 306 or above.

Mathematics—Actuarial Sciences Major (B.S. or B.A.) **Special curricula; major codes BS3105, BA3105**

The following program includes 56 hours of mathematics and is intended to prepare you for entering the actuarial profession. After completing the program, you should be prepared to pass the first actuarial examination before graduation.

The program has a strong business component (with the addition of BUSL 255, MK 202, and OPN 310 it satisfies the requirements for a business administration minor) and is suitable if you plan to combine mathematics with a career in business. Finance 327, 341, 461, and MATH 456 are also recommended in addition to the required courses listed below.

Freshman

MATH 263A, B, C	Calculus	12
MATH 211	Elem. Linear Algebra	4
ECON 103, 104	Prin. of Micro/Macro.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 250	Intro to Prob. and Stat. I	4
MATH 251	Intro to Prob. and Stat. II	4
ACCT 101, 102	Fin. Acct. and Man. Acct.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

MATH 450A, B, C	Theory of Statistics	12
MATH 455	Princ. of Actuarial Science	4
CS 210	Programming in C	5
FIN 325	Managerial Finance	4
MGT 202	Management	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Senior

MATH 410	Matrix Theory	4
MATH 451	Stochastic Processes	4
FIN 331	Risk and Insurance	4
FIN 436	Life Insurance	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Mathematics—Prep. for Advanced Training Major (B.S. or B.A.)

Special curricula; major codes BS3102, BA3102

You can ensure adequate preparation for graduate work by building your program around the 56 hours of basic mathematics offerings listed below. In addition, some computer science experience and coursework from the physical sciences is recommended. Consult an advisor in the Department of Mathematics for assistance in planning your program.

Freshman

MATH 263A, B, C	Calculus	12
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Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 306	Found. of Math. I	4
MATH 314	Elem. Abstract Algebra	4
MATH 360	Intermediate Analysis	4
	Math elective	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior-Senior

MATH 411	Linear Algebra	4
MATH 413A, B or MATH 480A, B,	Intro to Mod. Algebra Elem. Point Set Topology	8
MATH 460A, B, C	Advanced Calculus	12

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

You are encouraged to select other 400-level mathematics electives as time and interest permit.

Mathematics—Applied Mathematics Major (B.S.)

Special curriculum; major code BS3103

This program leads to a B.S. in mathematics with an emphasis on applications of mathematics to other disciplines. The intent is to help prepare you for employment as a professional applied mathematician. If you are pursuing this program, you should select an additional concentration area in ONE of the following areas: engineering, computer science, natural sciences, social sciences, or business. In addition to 50 hours of mathematics course requirements listed below, at least 16 hours of extra departmental coursework at the 200 level or above is required in this chosen area.

Consult with an advisor for assistance in designing a suitable study plan. Your program must meet the following requirements:

Departmental requirements

MATH 263A, B, C, D	Calculus	16
MATH 306	Found. of Mathematics I	4

MATH 340	Differential Equations	4
MATH 360	Intermediate Analysis	4

Select additional courses from the following to make a total of at least 50 credit hours in mathematics:

MATH 410	Matrix Theory	4
MATH 412	Intro to Algebraic Coding Theory	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
MATH 442	Linear and Nonlinear Prog.	4
MATH 443	Math. Modeling and Optimization	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Algebra	4
MATH 448	Intro to Waves and Wavelets	4
MATH 449	Adv. Diff. Equations	4
MATH 450A, B, C	Theory of Statistics	4–12
MATH 451	Stochastic Processes	4
MATH 452	Statistical Computing	4
MATH 460A, B, C	Advanced Calculus	4–12
MATH 470	Appl. Complex Variables	4
MATH 486	Intro. to Bioinformatics	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives

Additional Extra departmental coursework

In addition to the required mathematics courses listed above, at least 16 hours of extra departmental courses at the 200 level or above are required in ONE of the following areas: engineering, computer science, natural sciences, social sciences, or business.

Mathematics—Meteorology Major (B.S. or B.A.)

Special curricula; major codes BS3110, BA3110

This interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for training at the graduate level in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the mathematics emphasis, which includes a minimum of 44 hours, contact the Department of Mathematics for advising.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEOL 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

Sophomore

GEOG 201	Environmental Geography	4
GEOL 211	Oceanography	4
MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics English composition	4

Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)	10
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PHYS 411	Thermodynamics	4
PHYS 414	Dynamic Meteorology I	4
PHYS 415	Dynamic Meteorology II	4

Mathematics requirements

MATH 410	Matrix Theory	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Alg.	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives. GEOG 406 and GEOG 407 are also recommended in addition to the required courses listed above.

Medicine

See Biological Sciences or Chemistry, Preparation for Medicine.

Microbiology

See Biological Sciences.

Modern Languages

(see also: Foreign Languages and Literatures)

French Major (B.A.)—Major code BA5221

German Major (B.A.)—Major code BA5222

Russian Major (B.A.)—Major code BA5224

Spanish Major (B.A.)—Major code BA5225

Germanic, Romance, and Slavic languages are included in the offerings of the Department of Modern Languages. Majors are offered in French, German, Russian, and Spanish.

The minimum requirement for a French major is 40 quarter hours beyond 213, which must include 12 quarter hours at the 400 level. French majors must complete 341, 342, 343, 348 or 349, and 354; two of 345, 355, or 356 in addition to the 12 quarter hours at the 400 level.

The major requirement for the B.A. in German is a minimum of 36 quarter hours beyond 213. Specific requirements are 341, 342, 343, 348 or 349, 355, 356, and at least 12 quarter hours at the 400 level, which should include courses in both language and literature.

The major requirement in Russian is a minimum of 36 quarter hours beyond 213. Specific requirements are 341, 342, 343, 348 or 349, 355, 356, and at least 12 quarter hours at the 400 level, which should include courses in both language and literature.

In Spanish the requirement is a minimum of 40 quarter hours beyond 213, which must include 16 quarter hours at the 400 level. Spanish majors must complete 341, and 343; 348; one of 349, 350, 351, or 352; two of 345, 354, 355, or 356; one of (linguistics) 437, 438, 439, or 441; one of (Spanish-American content) 443, 444, 447, or 448; and one of (Spanish content) 425, 427, 429, 432, 450, 453, 454, 455, or 458. 435 may be used to fulfill a Spanish 400 level requirement if approved by the department. An Oral Proficiency Interview (OPI) is required of all Spanish majors. This must be taken and passed at least one quarter prior to graduation. For more information contact the Modern Languages Department (Gordy 283).

Education Abroad Requirement for Spanish Majors

Students majoring in Spanish must have a minimum of one quarter of education abroad in a Spanish-speaking country. Students choose a study abroad program in consultation with an academic advisor. The primary goal of education

abroad is to increase cultural and linguistic competency. We strongly recommended that students study abroad after completing the equivalent of at least one year of language study. Although we encourage students to participate in an Ohio University study abroad program, other alternatives are possible.*

* In rare cases, the study abroad experience may be waived due to prior experience, financial exigencies, etc. In some cases, an internship with a Spanish-speaking organization may substitute for the education abroad. The Modern Languages Department must approve all substitutions which students initiate through petition to their academic advisor.

You are not permitted to take courses in your major subject on a pass/fail basis. A grade of C (2.0) or better must be earned in a course for those hours to count toward a major. Students majoring in an area other than Spanish are strongly urged to study abroad in one of the department's programs. Suggested electives are classical languages, comparative literature, cultural anthropology, English, fine arts, history of the country in your major interest, and linguistics.

If you are an Arts and Sciences student interested in becoming licensed to teach languages at the secondary level (middle school or high school), please seek assistance at the department office, Gordy 283, to meet with language department faculty knowledgeable about language education. Together you can plan how to complete the licensure requirements listed under Modern Languages in the College of Education section of the Catalog. Prospective teachers are highly encouraged to spend one quarter in study abroad.

The Language Resource Center was opened in September of 1998. It is located on the ground floor of Gordy Hall. It consists of a large independent study lab, a classroom computer lab, a classroom audio lab, an independent study audio lab, a faculty development room, a recording studio, a video editing room, and a classroom for observation.

The department has chapters of foreign language honoraries Delta Phi Alpha, Phi Sigma Iota, and Sigma Delta Pi. For information on the honors tutorial programs in French and Spanish, see the Honors Tutorial College section.

The following study-abroad programs are available through the department:

- 1 Austria: spring quarter in Salzburg offers beginning through advanced German.
- 2 Canada: 5 week summer program in Quebec City offers courses in beginning through advanced French.
- 3 Ecuador: spring quarter in Cuenca offers courses in intermediate through advanced Spanish.
- 4 France: spring quarter in Tours offers courses in beginning through advanced French.
- 5 Martinique: winter intersession in Martinique offers one upper-level course.
- 6 Mexico: winter quarter in Merida offers intermediate and advanced Spanish and coursework in Latin American area studies.
- 7 Puerto Rico: winter intersession in Puerto Rico offers one upper-level course.
- 8 Russia: spring quarter in Moscow offers intermediate and advanced Russian.
- 9 Spain: one-, two-, or three-quarter sequence in Pamplona offers courses necessary for completing the Spanish major or minor and for working toward the Certificate in European Studies. A summer session is also available.

French Minor—Minor code OR5221**German Minor—Minor code OR5222****Russian Minor—Minor code OR5224****Spanish Minor—Minor code OR5225**

A foreign-language minor requires a minimum of 24 hours of language courses beyond 213 with a grade of C (2.0) or better in each course. There are no specific course requirements, but you should observe prerequisites and course sequences. Consult with the Modern Languages department (Gordy 283) to develop a minor.

Music

See School of Music, in the College of Fine Arts section, for information about selective admission requirements. To earn a B.A. in music from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

Pharmacy

See Chemistry or Prepharmacy.

Philosophy
Philosophy Major (B.A.)**Major code BA5241**

The major requirement for a B.A. consists of a minimum of 40 hours, including

PHIL 310	Hist. of Western Phil.: Ancient	5
PHIL 312	Hist. of Western Phil.: Modern	5
PHIL 320	Symbolic Logic I	4
PHIL 490	Senior Seminar	3

At least three courses numbered above 400, not including 490 or 497.

You may begin your study of philosophy with courses at the 100, 200, or 300 level except as limited by specific prerequisites.

For more information, contact the Department of Philosophy.

Philosophy Minor**Minor code OR5241**

The general requirement for the philosophy minor is 25 hours, at least 20 of which must be courses numbered 200 or above. For more information, contact the Department of Philosophy.

Philosophy—Prelaw Major (B.A.)**Special curriculum; major code BA5244**

The requirement for a major in Philosophy—Prelaw is a minimum of 40 hours in philosophy, including the following:

PHIL 101 or PHIL 130	Fundamentals Introduction to Ethics	4 4
PHIL 240	Social and Political Philosophy	4
PHIL 310 or PHIL 312	History of Western Philosophy: Ancient History of Western Philosophy: Modern	5 5
PHIL 320	Symbolic Logic I	4
PHIL 440 or PHIL 442	Contemporary Social Philosophy Philosophy of Law	5 5
PHIL 490	Senior Seminar	3

At least two additional courses above 400.

For more information, contact the philosophy department.

Philosophy—Pretheology Major (B.A.)**Special curriculum; major code BA5242**

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following

(with minimum credit suggested in each area): philosophy and world religions (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the University General Education Requirements.

It is advisable to major in philosophy, English, classics, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Departments of English and History.

Preparation for Physical Therapy

Ohio University offers a unique opportunity to the prospective physical therapist. Recognized for leadership in the development of preprofessional physical therapy curricula since the 1930s, the Department of Biological Sciences, and the Department of Psychology, both in the College of Arts and Sciences, work cooperatively with the School of Physical Therapy in the College of Health and Human Services.

Physical therapy programs are offered at the graduate level only. As of January 1, 2002, undergraduate physical therapy programs are no longer accredited. To be eligible for admission to most accredited professional schools of physical therapy, you must first complete the baccalaureate-level preprofessional preparatory coursework and then apply on a competitive basis to a professional school of physical therapy. If you are accepted, the professional program extends for an additional two to three years, culminating in a degree in physical therapy. The optional plans of study available will prepare you to be highly qualified for admission to most schools of physical therapy. However, some professional programs require special prerequisites—either courses or practical experience as a volunteer—before you apply for admission. It is your responsibility to check the admission requirements for programs you wish to attend and, in consultation with your academic advisor, to fulfill any special prerequisites.

Ohio University has the first entry-level doctoral program in the state of Ohio. Although a master's degree is sufficient to sit for the national licensing examination, the profession has been making a rather rapid transition to the doctoral degree (DPT). At Ohio University, the entry-level doctoral program in the School of Physical Therapy admits students on a competitive basis. It is a three-year program with approximately 17 quarter hours per term. A baccalaureate degree is required for admission to the program. Although a baccalaureate degree in any field is acceptable, as long as the prerequisites have been attained, the most direct routes at Ohio University are the biological sciences/pre-physical therapy or psychology/pre-physical therapy majors in the College of Arts and Sciences. A major in exercise physiology in the College of Health and Human Services is also an option.

Application should be made in the senior year. The GRE should be taken at the beginning of the senior year in order to meet requirements for early admission status. Some volunteer experience is possible through Ohio University Therapy Associates, particularly in the course, PT 259B.

For additional information, see Biological Sciences or Psychology Pre-Physical Therapy majors in this section, and

"Physical Therapy" in the College of Health and Human Services section. Students should consult the Web page (<http://www.ohio.edu/phystherapy/>) for the most up-to-date information.

Physics and Astronomy

The Department of Physics and Astronomy offers majors in physics (B.A. or B.S.); preparation for advanced training for students planning to pursue graduate study in physics or astronomy; applied physics; and meteorology.

Students in the Honors Tutorial College may major in physics, astrophysics, or engineering physics. Curricula for these programs are available from the Honors Tutorial College.

Contact the chair of the Department of Physics and Astronomy if you are interested in pursuing any of the programs described below.

Physics Major (B.S. or B.A.)

Major codes BS3331, BA3331

The minimum requirements for the B.S. degree with a major in physics are

54 quarter hours of physics, including

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	4
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Labs	6
PHYS 411	Thermodynamics	4
PHYS 427, 428	Electricity and Magnetism	8
PHYS 451	Quantum Mechanics	4

The following mathematics courses

MATH 263A, B, C, D	Calculus	16
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Anal. and Partial Differential Equations	4

12 quarter hours in PHYS, ASTR, or MATH above the 300 level, in CHEM above the 150 level, or in BIOS above the 200 level.

The minimum requirement for the B.A. degree with a major in physics is 36 quarter hours in physics and/or astronomy at or above the 200 level, including

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	4

This degree is recommended if you want a general education with an emphasis on physics and/or astronomy; have plans for further education or employment in an interdisciplinary area; or desire a dual major in physics and chemistry, biological sciences, geological sciences, etc.

You can meet the requirements for teaching high school physics by completing the physics major program listed in the College of Education section.

Astronomy Minor

Minor code ORASTR

The minor in astronomy is an option for non-physics majors who wish to study astronomy as a special interest. (Physics majors who are interested in astronomy should enroll in the physics pre-astronomy program.) Students in mathematics, chemistry, engineering, and other fields of study will find a significant science overlap with their major areas of interest.

The astronomy minor consists of a set of required courses—PHYS 251 and 252, PHYS 253 or EE 321, PHYS 254, and ASTR 305—and at least 12 hours from ASTR 310, 401, 402, 403, 410, and 450.

Physics Minor

Minor code OR3331

The minor in physics consists of a minimum of 30 hours with 10 hours at or above the 300 level.

Physics—Applied Physics Major (B.S.)

Special curriculum; major code BS3332

This four-year program leads to a B.S. in physics and allows an emphasis in experimental techniques from engineering or other applied sciences. It provides the opportunity for a broad basic education in areas fundamental to present technology and is aimed at preparing you for many physics career opportunities in industry and government laboratories.

The sequence of courses will vary depending on your interests. Basic requirements in natural sciences, physics, and mathematics will be the same as those of the regular B.S. in physics but may be satisfied by engineering or other applied science courses. The elected sequence could be toward a specific area of interest within an engineering department, e.g. Civil, Mechanical, Electrical, etc. or over a broad area of interest e.g. materials science, which crosses colleges.

The advantage of preparing for applied science through the fundamental physics program is the acquisition of the abilities for continued development of the technology from fundamental physics principles.

Astrophysics Major (B.S.)

Special curriculum; major code BS3335

This challenging program offers a solid foundation in physics along with specialized study for students interested in pursuing advanced degrees in astronomy or astrophysics. Required and recommended courses are listed below by the year in which they are taken by most students. The order is not fixed, but check the course listing for prerequisite requirements. Consult the department chair and pre-astronomy major advisor during your freshman year for help in planning your program.

Freshman

	English composition	5
MATH 263A, B, C	Calculus	12
PHYS 210	Physics Seminar	1
PHYS 251, 252	General Physics	10

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 410*	Matrix Theory	4
ASTR 305	Fund. of Astrophysics	3
ASTR 401	Stellar Astrophysics	3
CS 220*	Intro to Computing	5
PHYS 253	General Physics	5
PHYS 254	Contemporary Physics	4
PHYS 272, 273	Electronics Lab	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

	English composition	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
ASTR 402	Galactic and Interstellar Astrophysics	3

ASTR 403	Extragalactic Astrophysics and Cosmology	3
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Lab	6

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives. ***

Senior

	Tier III	4
ASTR 310**	Astronomy Lab	1-3
ASTR 410**	Observ. Astrophysics	3
ASTR 450**	Studies in Astronomy	1-3
PHYS 411	Thermodynamics	4
PHYS 412*	Kinetic Theory and Stat. Mechanics	4
PHYS 427, 428	Elec. and Magnetism	8
PHYS 429*	Electromag. and Relativity	3
PHYS 451*	Quantum Mechanics	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives. ***

If you are in the Honors Tutorial Program, special combinations of some of the above courses are available. Consult with the pre-astronomy advisor.

*Strongly recommended

**A total of at least six hours in combined coursework from ASTR 310, 410, or 450 is required.

***Beneficial PHYS electives include 303 Computer Simulation Methods, 423 Optics, and 453 Nuclear and Particle Physics.

Physics—Meteorology Major (B.S.)

Special curriculum; major code BS3338

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for graduate training in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the geography or mathematics emphases, contact the department of Geography or Mathematics for advising.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEOL 101	Intro to Geology	5
MATH 263A 263B, 263C	(or advanced placement), Analytic Geom. and Calc.	12
	English composition	5
PHYS 210	Physics Seminar	1

Sophomore

GEOG 201	Environmental Geography	4
GEOL 211	Oceanography	4
MATH 263D	Analytic Geom. and Calc.	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics	8
	English composition	4

Senior

	Two courses in computer programming or quantitative methods (see advisor for approved list)	10
GEOG 406	Intro to Synoptic Meteorology	5

GEOG 407	Adv. Synoptic Meteorology	5
PHYS 411	Thermodynamics	4
PHYS 414, 415	Dynamic Meteorology	8

Physics emphasis requirements

PHYS 272, 273	Electronic Lab	4
PHYS 254	Contemporary Physics	3
PHYS 412 or PHYS 423	Kinetic Theory and Statistical Mechanics Optics	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Political Communication Certificate Program

The College of Communication and the College of Arts and Sciences jointly sponsor the undergraduate Political Communication Certificate Program for students in any major program who want to gain knowledge and understanding about the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their attempts to shape political decisions. Completion of this program is officially recognized on your transcript when you graduate, and a certificate is awarded. See the program details in the College of Communication section.

Political Science

Political Science Major (B.A.)

Major code BA4201

The major requirement is a minimum of 52 hours including

POLS 101	Amer. Natl. Government	4
POLS 150	Current World Problems	4
POLS 270	Political Theory	4

Two additional 200-level courses

At least four 300- and 400-level courses in one of the following tracks:

American politics

POLS 301, 304, 306, 310, 319, 323, 401, 402, 405, 406, 407, 415, 417, 418, 420, 424, 425, 426, 476A, 476B, 488

World politics

POLS 331, 333, 340, 354, 427, 429, 432, 433, 434, 435, 438, 439, 441, 442, 445, 446, 447A, 447B, 452, 455, 457, 459, 463, 464

Law, Justice, and Political Thought

POLS 301 (required), and three courses from POLS 319, 371, 372, 373, 401, 402, 404, 409, 413, 420, 421, 455, 475, 476, 477, 478, 488

General Politics

One 300- or 400-level course from each of four different tracks

All majors are encouraged to take additional courses designed to develop skills, including POLS 305J, 390, 480, 481, 482, 483, 484, and 495.

Political Science Minor

Minor code OR4201

The minor in political science requires a minimum of 28 hours, including POLS 101, 150, 270, and at least 16 hours at the 300-400 level.

Political Science Pre-Foreign Service Major (B.A.)

Special curriculum; major code BA4202

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service

officer examinations, including sample questions from previous examinations, from these departments.

Political Science—Prelaw (B.A.)

Special curriculum; major code BA4203

The prelaw major in political science gives students access to advice, activities, and courses designed to prepare them for law school. Prelaw majors meet the same requirements as general political science majors. They are encouraged to complete the Law, Justice, and Political Thought track, which offers a liberal arts education for undergraduate prelaw students as well as those studying political theory and legal institutions from a broader perspective. After completing the core requirements of the major, students take courses introducing concepts basic to the study of law and political theory. Advanced students take an array of electives in the fields as well as internships in a variety of legal and public affairs settings.

Political Science—Public Administration Major (B.A.)

Special curriculum; major code BA4200

The interdisciplinary program in public policy and administration is designed to provide broad training in preparation for a career with local, state, or federal government in the areas of budgeting, personnel administration, intergovernmental relations, program planning and evaluation, and general administration.

Be careful to meet the prerequisites for all courses. You are encouraged to gain as broad an understanding of politics as political science majors, since politics is a crucial element in public administration.

For further information and advice, consult the public administration advisor in the Department of Political Science.

Required courses

POLS 101	American National Government	4
POLS 102	Issues in American Politics	4
POLS 150	Current World Problems	4
POLS 210	Public Administration	4
POLS 230	Comparative Politics	4 or
POLS 250	International Relations	4
POLS 270	Political Theory	4
POLS 310	American Domestic Policy	4
POLS 304	State Politics	4
or POLS 320	Urban Politics	4
ECON 103	Microeconomics	4
ECON 104	Macroeconomics	4
CS 120	Computer Literacy	4
PSY 221	Statistics for Beh. Sciences	5
or QBA 201	Intro to Business Statistics	or 4
or POLS 482	Quant. Political Analysis	or 5

Any five of the following:

POLS 407	Politics of Urban Dev.	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4
POLS 412	Public Personnel Admin.	4
POLS 413	Administrative Law	4
POLS 414	Org. Theory and Politics	4
POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Res. Politics and Policy	4
POLS 429	Comparative Public Admin.	4
POLS 469	Nonprofit Fundraising	4
POLS 484	Mgt. Skills for Public Admin.	5
POLS 486	Public Budgeting	4
POLS 487	Financial Mgt. in Govt.	4

POLS 488	Public Dispute Resolution	4
POLS 489	Nonprofit Management	4

Recommended electives

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4
FIN 325	Managerial Finance	4
GEOG 201	Environmental Geography	4
GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
POLS 409	Criminal Procedure	4
POLS 495	Internship	4
SOC 430	Soc. of Organizations	4

Psychology

Psychology Major (B.A.)

Major code BA4101

The major requirement for the B.A. in psychology consists of a minimum of 50 quarter hours and a maximum of 72 hours. All majors are required to take

PSY 101	General Psychology	5
PSY 221	Stat. for Beh. Sciences	5
PSY 226	Research Methods	4

Biological—at least one of the following:

PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 312	Physiol. Psychology	4
PSY 314	Comp. Psychology	5
PSY 327	Human Psychophysiol.	4
PSY 380	Psych. of Health and Illness	4
PSY 490*	Seminars	3–5

Cognitive—at least one of the following:

PSY 304	Human Learning and Cognitive Processes	4
PSY 305	Human Memory	4
PSY 307	Psycholinguistics	4
PSY 308	Human Judgment and Decision Making	4
PSY 490*	Seminars	3–5

Developmental—at least two of the following:

PSY 273	Child and Adoles. Psych.	4
PSY 315	Behavior Genetics and Individual Differences	5
PSY 374	Psych. of Adulthood and Aging	4
PSY 376	Psychological Disorders of Childhood	4
PSY 378	Psychology of Gender	4
PSY 470	Prenatal Influences on Development	4
PSY 490*	Seminars	3–5

Clinical—at least two of the following:

PSY 233	Psych. of Personality	4
PSY 332	Abnormal Psychology	4
PSY 341	Tests and Measurements	4
PSY 351	Intro to Clinical and Counseling Psychology	4
PSY 430	Psychoactive Drugs	4
PSY 490*	Seminars	3–5

Social-Organizational—at least two of the following:

PSY 261	Industr. and Org. Psych.	4
PSY 310	Motivation	4

PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4
PSY 361	Adv. Org. Psychology	4
PSY 362	Personnel Psych.	4
PSY 490*	Seminars	3-5

At least four courses at the 300 level or above

- * 490 seminars that apply to the psychology area requirements are approved by the assistant chair for undergraduate studies when the seminar is offered. Some 490s do not apply to any area.

If you plan to attend graduate school in psychology, you should include PSY 233, 273, 304, 312, 321, 332, 336, 341, and 418.

In addition to a minimum of 50 hours of psychology coursework, majors are required to complete a series of extradepartmental courses selected from the natural sciences and either mathematics or computer science.

Majors must complete three courses in ONE of the following natural science areas:

- 1 Biological Sciences,
- 2 Chemistry,
- 3 Environmental and Plant Biology,
- 4 Geography,
- 5 Geology, or
- 6 Physics

Courses that will fulfill this requirement are listed under the Natural Sciences Area Requirement in the College of Arts and Sciences section of the Catalog and in the Arts and Sciences Natural Sciences portion of students' DARS. Courses taken to fulfill the extradepartmental requirement simultaneously apply to the College of Arts and Sciences Natural Sciences area requirement.

The three courses that you choose for your extradepartmental natural science requirement must have the same departmental prefix, with the following exception: If BIOL 101 is used as one of the courses, it may be combined with either two Environmental and Plant Biology (PBIOL) courses or two Biological Science (BIOS) courses. The intention of the extradepartmental natural science requirement is to provide a basic foundation in at least one natural science area, while allowing flexibility in the choice of area. However, students who are planning to attend graduate school in psychology are encouraged to complete the three courses in Biological Sciences (BIOL, BIOS).

Undergraduate psychology majors must also take two courses in either mathematics or computer science. Students may select any two courses in Mathematics (MATH) numbered 113 or above (except 251) OR any two courses in Computer Science numbered 200 or above. These courses are required to ensure that majors have at least a basic literacy in mathematics or computer science but to allow students to select from a wide range of levels. MATH or CS courses chosen for the extradepartmental requirement may simultaneously apply to the Natural Sciences area for Arts and Sciences distribution requirements, except MATH 113, 115, 117, 118, 120, 121, 122, and 320. You may choose MATH 250, but only if it is completed BEFORE you take PSY 221. Do not take MATH 251 because credit is not allowed for both MATH 251 and PSY 221. MATH 113 or a math placement of PL2 or higher is the prerequisite for taking PSY 221.

For qualified students, the department offers a departmental honors program. A detailed description is available from the department; apply to the assistant chair for undergraduate studies.

Requirements for all psychology programs are structured to provide you with exposure to several areas of psychology, while providing latitude in selecting courses to fit your needs and interests. Consult your academic advisor early in your program to plan appropriate course selections, particularly if you are considering graduate work in psychology.

At the graduate level, the department offers doctoral programs in clinical, experimental, and organizational psychology. Information about the graduate programs is available from the assistant chair for graduate studies.

Psychology Minor
Minor code OR4101

The minor in psychology consists of a minimum of 28 hours, with at least two courses at the 300 level or above. PSY 101 and 120 or 221 are required. In addition, at least one course is required in four of the following five areas:

- A Biological: 201, 203, 312, 314, 327, 380, 490*
- B Cognitive: 304, 305, 307, 308, 490*
- C Developmental: 273, 275, 315, 374, 376, 378, 470, 490*
- D Clinical: 233, 332, 341, 351, 430, 490*
- E Social-Organizational: 261, 310, 336, 337, 361, 362, 490*

*490 seminars that apply to these area requirements are approved by the assistant chair for undergraduate studies when the seminar is offered. Some 490s do not apply to any area.

Psychology Pre-Physical Therapy Major (B.A.)
Special curriculum; major code BA4105

This program prepares you to apply to graduate physical therapy professional programs.

For further information about physical therapy, see the Preparation for Physical Therapy listing in this section. See also the pre-physical therapy program described under Biological Sciences in this section.

Freshman

CHEM 121, 122, 123*	Principles of Chemistry	12
ENG 151 or 152 or 153	English composition	5
MATH 163A	Calculus	4
or MATH 263A	Calculus	4
or MATH 266A	Calculus Biol Appl	4
PSY 101**	General Psychology	5
PSY 221**	Statistics	4
PT 259A, 259B	Intro to Phys. Therapy	5
SOC 101**	Intro to Sociology	5
BIOS 170, 171	Intro to Zoology	10

Arts and Sciences degree requirements, including the B.A. degree foreign language requirement, and/or electives.

Sophomore-Junior

PHYS 201, 202, 203	Intro to Physics	15
PSY 226	Research Methods	4
PSY 273	Child and Adolescent Psychology	4
PSY 312	Physiological Psychology	4
PSY 332	Abnormal Psychology	4
BIOS 301	Human Anatomy (soph)	6
BIOS 345, 346	Human Physiology and Lab (soph)	7
BIOS 445, 446	Physiol. of Exercise, Lab	7
or PE55 414, 415	Physiol. of Exercise, Lab	7
PHIL 130	Intro. to Ethics	4
or PHIL 331	Moral Problems in Medicine	5

Arts and Sciences degree requirements, ENG junior composition course, and/or electives.

Sophomore-Junior-Senior

PSY 374	Adulthood and Aging	4
PSY 489***	Fieldwork	0-5

one of:		
PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 304	Human Learning	4
PSY 308	Human Judgment and Decision Making	4
PSY 327	Human Psychophysiol.	4

one of:		
PSY 233	Psych. of Personality	4
PSY 351	Clinical and Counseling Psychology	4
PSY 380	Psych. of Health and Illness	4
PSY 430	Psychoactive Drugs	4

one of:		
PSY 315	Behavior Genetics and Individual Differences	5
PSY 376	Psychological Disorders of Childhood	4
PSY 378	Psychology of Gender	4

two of:		
PSY 261	Industrial and Organizational Psychology	4
PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4

recommended:		
BIOS 352 or PESS 302	Biomechanics Biomechanics	4 4
BIOS 413	Human Neuroscience	4

Arts and Sciences degree requirements, major courses, General Education courses, and/or electives.

*The 120 chemistry sequence is usually sufficient for physical therapy programs. Other biomedical and allied health areas may require the 150 chemistry sequence. The regular psychology major does not require chemistry.

**If you are completing the B.A. in psychology pre-physical therapy and plan to start college-level foreign language with a course beyond 111, you are advised to begin foreign language in your freshman year and to complete PSY 101, PSY 221, and/or SOC 101 in the sophomore year. If you are starting foreign language with 111, begin language courses no later than the junior year.

***You may receive up to five hours of credit in PSY 489 for volunteer work in a physical therapy setting. Volunteer hours are required for application to many physical therapy programs.

PSY 221	Statistics	5
PSY 273	Child and Adoles. Psych.	4
PSY 332	Abnormal Psychology	4
PSY 374 or SW 486 or HLTH 290	Psych. of Adulthood and Aging Aging in America Health Aspects of Aging*	4 4

*will not count towards 90 hrs of A&S 200 level or above requirement.

In addition to these foundation courses, 27 hours are taken in the social sciences, including at least one course in each of the following areas: anthropology, economics, political science, and sociology. The choice of courses in these disciplines is left to you with the approval of your advisor and the permission of the instructor. You may use social work elective courses to substitute for up to a maximum of four hours of this social sciences requirement.

Admission to the Professional Major

Admission to the program is divided into two stages: preprofessional and professional. Freshmen are admitted as preprofessional majors (major code ND6603) to work on freshman- and sophomore-level requirements. To be admitted to the professional program, you are required (regardless of whether you are an Ohio University student or a transfer student) to submit an application and admissions essay to the department's screening committee. Applications are accepted during the second full week of each quarter; forms and guidelines are available from the department. To be considered, you must have completed a minimum of 48 quarter hours (12 quarter hours at OU for transfer students), with a minimum overall g.p.a. of 2.5. In addition, you must have completed (1) both SW 101 and SW 290 with a minimum grade of C in each course; (2) BIOS 103, PSY 221, PSY 273, as well as one course in any two of these areas: anthropology, economics, political science, and sociology; (3) Tier I composition (ENG 151, 152) and quantitative skills (MATH 113 recommended) requirements; (4) at least one quarter of the foreign language requirement other than high school; (5) a paid or volunteer social work experience. Meeting minimal requirements does not ensure admission to the major. To maintain compliance with the Council on Social Work Education student/faculty ratio standards, no more than 40 students are admitted annually.

To enroll in the senior-level practice sequence (SW 396, 397, 398; SW 491A-C; SW 492A-C), you must have been admitted to the major. In addition, you are expected to have (1) maintained an overall g.p.a. of 2.5; (2) completed one year of the foreign language requirement; and (3) completed all prerequisites for the sequence.

Social Services Minor

Minor code OR6602

Minor requirements consist of a minimum of 29 hours including SW 101, 190, 290, 390, and at least four other social work courses at the 300 level or above. In addition to Social Work electives, SW 383, 393, and 394 can be taken with permission of the instructor, to fulfill the four course requirement. The minor does not make you eligible for licensure in states regulating the practice of social work.

Social Work

Social Work Major (B.A.)

Major code BA6601

The Department of Social Work offers a flexible interdisciplinary curriculum designed to prepare you for beginning generalist social work practice. Upon completing the program, you will receive a B.A. with a major in social work. The Department of Social Work is fully accredited by the Council on Social Work Education. Graduates are qualified for full membership in the National Association of Social Workers and eligible for licensing as a social worker in Ohio.

Program Requirements

General requirements for a major in social work consist of a minimum of 59 hours of social work courses, plus at least 45 quarter hours of liberal arts foundation courses. Departmental required courses are:

SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Inst.	4
SW 350	Res. Meth. in Social Work	4
SW 383	Intro to Social Work Practice Methods	4
SW 390	Social Policy	4
SW 393, 394	Dyn. of Human Behavior 1, 11	8
SW 396, 397, 398	Social Work Practice I, II, III	12
SW 491A, 491B, 491C	Integrative Seminar	6
SW 492A, 492B, 492C	Field Practicum	14

The following liberal arts foundation courses also are required:

BIOS 103	Human Biology	5
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Sociology

Sociology Major (B.A.)

Major code BA4251

The major requirements for the B.A. in sociology are a minimum of 44 quarter hours of courses in sociology, of which at least 16 hours must be at the 400 level. Students must earn a "C" or better in SOC 101, 351, and 403 or 404.

SOC 101	Intro to Sociology	4
SOC 351	Elem. Research Tech.	4
SOC 403 or SOC 404	Dev. of Sociol. Thought Mod. Sociol. Theory	4

PSY 221 Statistics 5
or MATH 251,
COMS 301, QBA 201

Students must complete courses in each of the four areas listed below as part of the forty-five hours in the major.

Social Inequality. At least one of the following

SOC 230	Sociology of Poverty	4
SOC 329	Race and Ethnic Relations in the U.S.	4
SOC 331	Class and Social Inequality	4
SOC 429	Soc of Race, Ethnicity and Class	4
SOC 435	Soc of the Welfare State	4
SOC 470	Sociology of Gender	4

Societal Institutions. At least one of the following

SOC 220	Introduction of the Family	4
SOC 233	Sociology of Sport	4
SOC 424	Urban Sociology	4
SOC 430	Sociology of Organization	4
SOC 432	Political Sociology	4
SOC 433	Sociology of Occupations	4
SOC 464	Law and Social Control	4
SOC 465	Social Change	4

Social Psychology. At least one of the following

SOC 210	Social Psychology	4
SOC 211	Collective Behavior	4
SOC 315	Social Identities	4
SOC 412	Public Opinion	4
SOC 416	Society and the Individual	4
SOC 419	Group Processes	4

Integrative Topics. At least one of the following

SOC 261	Deviant Behavior	4
SOC 365	Sociology of Mental Illness	4
SOC 414	Social Movements	4
SOC 421	Comparative Studies of the Family	4
SOC 422	The American Family System	4
SOC 467	Violence to Women	4
SOC 471	Gender and Justice	4

(Courses in anthropology count toward the Arts and Sciences social sciences requirement.)

Sociology Minor
Minor code OR4251

The requirement for the minor is a minimum of 28 hours of coursework in sociology, of which at least 16 hours must be at the 300 or 400 level; SOC 101; 351, and 403 or 404.

Sociology—Criminology Major (B.A.)
Special curriculum; major code BA4253

The criminology program is designed for students who plan to pursue a career in some aspect of the criminal justice system (e.g., corrections, probation, parole, or law enforcement) yet wish to receive a liberal arts education. Possibilities after graduation include employment in criminal justice or further study in law, criminology, or criminal justice. You will receive a degree in sociology with the specialization in criminology noted. You are encouraged to enter the program as a freshman to help ensure completion in four years. Students must earn a "C" or better in SOC 101, 260, 351, 362, and 403 or 404.

Required courses (25 credit hours)

SOC 101	Intro to Sociology	4
PSY 221 or MATH 251, COMS 301, QBA 201	Statistics	5
SOC 260	Criminal Justice	4

SOC 351	Elem. Research Techniques	4
SOC 362	Criminology	4
SOC 403* or SOC 404	Devel. of Soc. Thought Modern Soc. Theory	4

Criminology options: Take four courses for 16–22 credit hours

SOC 261	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 364	Police and Society	4
SOC 365	Soc. of Mental Illness	4
SOC 366	Soc. of Correction	4
SOC 367	Corporate and Governmental Crime	4
SOC 464	Law & Social Control	4
SOC 467	Violence Against Women	4
SOC 471	Gender & Justice	4
SOC 495	Internship in Criminology	5–10

Collateral sociology courses: Take three courses for 12 credit hours

SOC 201	Social Problems	4
SOC 210	Sociology Psychology	4
SOC 211	Collective Behavior	4
SOC 230	Soc. of Poverty	4
SOC 329	Race and Ethnic Relations in the U.S.	4
SOC 331	Class & Social Inequality	4
SOC 450	Data Analysis	4

Total credit hours: 57

The following courses are highly recommended, and you are encouraged to take some of them to satisfy the College of Arts and Sciences 18-hour social sciences requirement. Check the Courses of Instruction section for prerequisites.

PSY 332	Abnormal Psychology
PSY 337	Social Psychology of Justice
POLS 404	Civil Liberties
POLS 409	Criminal Procedure

* Preferred

Sociology—Prelaw
Special curriculum; major code BA4254

If you are in the College of Arts and Sciences and plan to enter law school, you will complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see "Law" in this section. You must earn a "C" or better in SOC 101, 351, and 403 or 404.

Spanish

See Modern Languages.

Theater

See School of Theater in the College of Fine Arts section.

Theology

See English, History, or Philosophy—Pretheology.

Undecided

Major Code ND0410

If you have not settled on a major but wish to be enrolled in the College of Arts and Sciences to benefit early on from this

advising perspective, you may apply to Ohio University as an undeclared or "undecided" major in Arts and Sciences. While on average, most students choose a major within the first four quarters of exploration, you are allowed to earn up to 90 credit hours before you must select a degree program.*

- * Students with 45 or more credits transferring from other colleges within Ohio University may not select the undecided major. Transfer students from other universities are not eligible to enroll as undeclared in Arts and Sciences.

Virology

See Biological Sciences—Microbiology.

Women's Studies Certificate Program

This program is available to complement any baccalaureate degree program offered by the University. The requirements for the certificate are 30 hours total including:

16 quarter hours:

WS 100	Intro to Women's Studies	4
WS 200	Issues in Feminism	4
WS 350	Feminist Theory	4
WS 480	Capstone in Women's Studies	4

14 quarter hours from the following*:

AAS 345	The Black Woman	4
AAS 411	Racial Performativity	4
AAS 482	The Black Family	4
AH 411	Representation of Gender in History of Art	4
ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 349	Life History: The Individual and Culture	4
ANTH 363	Gender in Prehistory	4
BIOS 202	Sex Differences and the Brain	4
CLAS 343	Women in the Ancient Mediterranean	4
CLVR 484	Women and Religion	4
COMS 320	Women and Health Communication	4
COMS 420	Gender and Comm.	4
COMS 422	Comm. in the Family	4
ENG 153A	Writing and Reading: Gender	5
ENG 306J	Women and Writing	4
ENG 325	Women and Literature	4
ENG 326	Lesbian and Gay Literature	4
ENG 447	Studies in Criticism: Contemporary Feminist Theory Senior Seminar	4
ENG 460	**Special Topics: Popular and Elite: Culture, Race, Class, and Gender in the American Renaissance	4
ENG 464	**Major English Authors: Woolf and Winterson	4
ENG 464	**Major English Authors: Mary Wollstonecraft and Her Circle	4
ENG 466	**Major Int'l. Authors: Contemporary Narratives of Exile	4
FILM 471	Film Topics Seminar: Masculinity and Film	4
FILM 472	Film Topics Seminar: Primitivism and Film	4
GEOG 327A	Social Geographies	4
HCCF 360	Human Sexuality	4
HCCF 462A	Diversity in Families	3
HIST 320A	Women in American History Before 1877	4
HIST 320B	Women in American History Since 1877	4
HIST 320C	Women's Health and Medicine in U.S. History	4
HIST 332	Women in the Middle East	4
HIST 354A	History of Early Christianity	4

HIST 360A	Women in Early Modern Europe	4
HIST 360B	Women in Modern Europe	4
HIST 360C	Women Warriors	4
HIST 371A	Witchcraft 1400–1750	4
HIST 381	History of the Family	4
HIST 453D	Studies in Medieval History: Women in Medieval Society	4
HLTH 210	Health of Women	4
ILML 335	**Italian Literature in English: Women of the Italian Middle Ages	4
ILML 336	**Gay and Lesbian Writers in Latin America	4
ILML 339A	Nineteenth-Century Russian Literature in English: Women, Transgression and Crime	4
ILML 339B	Twentieth-Century Russian Literature in English: Love, Sex and Gender	4
LING 390	Lang. of Women and Men	3
MGT 462	Women in Management	4
PBIO 217	Women in Science	4
PESS 400	Women in Sports	3
POLS 319	Gay and Lesbian Politics	4
POLS 420	Women, Law, and Politics	4
POLS 421	Politics of Law and Sexuality	4
POLS 478	Feminist Political Theories and Movements	5
POLS 490	**Studies in Political Science: Gender and Political Development in Africa	4
POLS 490H	**Women in Politics	4
POLS 490T	**Feminist Legal Theory	4
PSY 378	Psychology of Gender	4
SOC 220	Introduction to the Family	4
SOC 407	Feminist Social Theory	4
SOC 421	Comp. Studies of Family	4
SOC 422	The American Family System	4
SOC 467	Violence Against Women	4
SOC 470	Sociology of Gender	4
SOC 471	Gender and Justice	4
TCOM 481	Women and the Media	4
TCOM 486A	Age, Class, Gender, Race, and Sexuality in the Media	4
WS 210	Women, Gender, and Rock and Roll	4
WS 320	Sexual Revolutions	4
WS 360	Women and Work Internship	4
WS 410	Global Feminisms	4
WS 411	Women and Globalization	4
WS 450	Advanced Feminist Theory	4
WS 460	Gender, Sexuality, and Culture	4
WS 461	Queer Theory	4
WS 481	Writing Gender	4
WS 493	Special Topics	4

* Contact the Women's Studies office for advising, for information on additional courses, and to register for the certificate. The Women's Studies Certificate is awarded upon graduation from Ohio University, and the award is recorded on your transcript. Consult with the Women's Studies advisor before the deadline for graduation to ensure that the certificate will be awarded.

**Credit is awarded for the specific subtitle only in special topics courses. Actual course numbers may vary.

Women's Studies Major

Major Code BA4402

Women's Studies addresses the influence and meaning of gender in the human experience as it intersects with ethnicity, sexuality, race, and various other elements of diversity. It is a liberal arts degree that emphasizes

the development of critical thinking and effective communication skills, and can be applied to a variety of careers.

The major features a global track, a sexuality track, and a gender track. The global track focuses on the study of women and gender from an international and cross-cultural perspective. The sexuality track focuses on the study of gender and sexuality as categories of social and cultural analysis. The general track offers a variety of courses that address gender and related topics. Students graduating with a major in Women's Studies will have the ability to understand the well-developed body of feminist theories that grounds the discipline, and the ability to apply those theories to a wide range of contexts and experiences that vary within and across sexual and global cultures. Students are encouraged to complement their major in Women's Studies with minors in other fields and/or double-majors that are consistent with their educational and professional interests.

The major offers a number of core courses in Women's Studies as well as elective courses in African American Studies, art history, anthropology, classics and world religions, communication studies, English, film, geography, HCCF, history, ILML, linguistics, physical education and sports science, political science, psychology, sociology, and telecommunications.

The Bachelor of Arts in Women's Studies is an interdisciplinary major within the College of Arts and Sciences, and requires the completion of all Arts and Sciences requirements.*

Core Requirements

Required of all Women's Studies majors:

WS 100	Intro to Women's Studies	4
WS 200	Issues in Feminism	4
WS 350	Feminist Theory	4

Select one of the following:

WS 360	The Women and Work Internships	4
WS 450	Advanced Feminist Theory	4

Select one of the following:

WS 410	Global Feminisms	4
WS 411	Women and Globalization	4

Select one of the following:

WS 320	Sexual Revolutions	4
WS 460	Gender, Sexuality, and Culture	4
WS 461	Queer Theory	4

Select one of the following:

WS 480	Capstone in Women's Studies	4
WS 481	Writing Gender	4

Track Requirements (20 hours)

Students will choose 12 hours from one track, and 8 hours from either of the other two tracks. NOTE: No more than 2 courses may be taken in any one discipline to fulfill Track requirements, nor can any single course be taken to fulfill both a Core and a Track requirement. In addition, no single course may be taken to satisfy more than one track.

Global

ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 349	Life History: The individual and Culture	4
ANTH 363	Gender in Prehistory	4
CLAS 343	Women in Ancient Mediterranean	4
HIST 332	Women in the Middle East	4
HIST 360A	Women in Early Modern Europe	4
HIST 360B	Women in Modern Europe	4

HIST 360C	Women Warriors	4
ILML 339A	Russian Lit in English: Women, Transgression, and Crime	4
ILML 339B	20th Century Russian Lit in English: Love, Sex, and Gender	4
SOC 421	Comparative Studies of the Family	4
WS 410	Global Feminisms	4
WS 411	Women and Globalization	4
Sexuality		
ENG 326	Lesbian and Gay Literature	4
HCCF 360	Human Sexualities	4
HCCF 462A	Diversity in Families	4
ILML 339A	Russian Lit in English: Women, Transgression, and Crime	4
ILML 339B	20th Century Russian Lit in English: Love, Sex, and Gender	4
POLS 319	Gay and Lesbian Politics	4
POLS 421	Politics of Law and Sexuality	4
PSY 378	Psychology of Gender	4
TCOM 484 (486A)	Age, Class, Gender, Race, and Sexuality in the Media	4
WS 320	Sexual Revolutions	4
WS 460	Gender, Sexuality, and Culture	4
WS 461	Queer Theory	4
General		
AAS 345	The Black Woman	4
AAS 482	The Black Family	4
COMS 320	Women and Health Communication	4
COMS 420	Gender and Communication	4
COMS 422	Communication and the Family	4
ENG 153A	Writing and Research: Gender	5
ENG 306J	Women and Writing	4
ENG 325	Women and Literature	4
HIST 320A	Women in American History before 1877	4
HIST 320B	Women in American History after 1877	4
HIST 320C	Women's Health and Medicine in America	4
HIST 381	History of the Family	4
HLTH 210	Health of Women	4
LING 390	Language of Women and Men	4
PESS 400	Women in Sports	3
POLS 420	Women, Law, and Politics	4
POLS 478	Feminist Political Theories and Movements	4
PSY 378	Psychology of Gender	4
SOC 220	Introduction to the Family	4
SOC 407	Feminist Social Theory	4
SOC 422	The American Family System	4
SOC 467	Violence to Women	4
SOC 470	Sociology of Gender	4
SOC 471	Gender and Justice	4
TCOM 481	Women in Media	4
TCOM 484 (486A)	Age, Class, Gender, Race, and Sexuality in the Media	4
WS 210	Women, Gender, and Rock & Roll	4

* Courses which satisfy major credit, including track requirements, may not be used to fulfill Arts and Sciences area requirements.

World Religions

See Classics and World Religions.

Zoology

See Biological Sciences.

College of Business

<http://www.cob.ohio.edu/>

Copeland Hall

Glenn Corlett
Dean

John Day
Associate Dean for
Academic Affairs

Michael Bila
Assistant Dean,
Office of Student Services

To schedule an appointment
with an academic advisor from
the Office of Student Services,
call 740.593.2000.

The College of Business provides a distinctive learning environment that actively engages students, faculty, and the business community in developing the knowledge and skills needed for success in today's complex, global economy.

This learning environment results in graduates who possess: a) the ability to apply a holistic, integrated approach to business problems; b) the communication, leadership, team and technological skills needed to succeed in their business careers; c) an understanding of how to work with people from other cultures and to operate effectively in other countries and d) an understanding of the social responsibilities of corporations and the ability to evaluate the ethical dimensions of decision-making.

The academic departments offer major fields of study in accounting, business prelaw, finance, general business, human resource management, international business, management, management information systems, and marketing. A major in business economics is also available.

The College of Business has been an accredited member of the AACSB—The Association for the Advancement of Collegiate Schools of Business since 1950.

Advisory Committees

The Executive Advisory Board of the College of Business, the formal external arm of the college, serves as a representative of the business community at large. The board is a group of professionals, managers, and executives who review and advise the college on activities necessary to accomplish college missions from the perspective of the business community. The board meets with the dean, faculty, and students twice a year to give advice on college programs. Members are often on campus to speak to student organizations or classes and to participate in special college programs. The board is extremely helpful to the college's continuing efforts to maintain excellence in education for future business leaders.

The Society of Alumni and Friends of the College of Business, made up of graduates, friends, and former students of the college, functions as the alumni relations arm of the college. Since 1982 this society has provided innovative and meaningful alumni involvement in sponsorship, planning and support, alumni awards, recruitment, etc. The 12-member board of directors of the society formally meets on the Athens campus twice a year and initiates yearly alumni receptions in many other cities.

Beta Gamma Sigma, the national scholarship society founded in 1913 to encourage and reward scholarship and accomplishment among students of business administration, has an active chapter at Ohio University. Beta Alpha Psi is a national accounting honorary that elects its members on the basis of scholastic achievement in accountancy courses.

Students also are encouraged to participate in student professional organizations, including Alpha Kappa Psi, a professional business fraternity; Alpha Upsilon chapter of Delta Sigma Pi, a professional business fraternity; Phi Alpha Delta, a national prelaw fraternity; Phi Gamma Nu, a professional business fraternity; Gamma Iota Sigma, an insurance fraternity; the Accounting Club; the American Marketing Association; the Association of Collegiate Entrepreneurs; the Association of Information Technology Professionals; Black Student Business Caucus; Christian Business Leaders; COB Connect (alumni relations); the Financial Management Society; the International Business Society; the Management Science Society; the Society for Advancement of Management; the Society for Human Resource Management; X-Sell (professional sales); and the M.B.A. Student Association.

Honorary and Professional Organizations

The College of Business seeks to improve the quality of its programs and provide educational development opportunities for its students through its honorary and professional organizations.

Career Resources

The College of Business offers an internship program to assist students in securing practical experience during their college career. In today's job market, recent graduates are expected to have job-related experience. Internships are available for all College of Business majors, and undergraduates

can earn academic credit for career-related job experience. Multiple internships are encouraged.

The Career Resources Office of the College of Business encourages organizations to interview students on campus and works in partnership with the Ohio University Office of Career Services to refer resumes to interested employers. Many companies seeking interns or offering full-time positions partner with the College. Company representatives offer professional development seminars and workshops, and participate in class projects and student organization programs. A small sampling of participating companies includes: Cardinal Health, AT&T Network Systems, The Handleman Company, Philip Morris, Progressive Insurance, University Directories, Bisys Fund Services, Enterprise Rent a Car, JC Penney, Wal-Mart, Ford Motor Company, American Electric Power, Wachovia Corporation, Wells Fargo, Cohen & Company, American Management Systems, Bank One, Deloitte & Touche, Ernst & Young, J.M. Smucker Company, KPMG, National City Corporation, Nationwide Insurance, PriceWaterhouseCoopers, Procter & Gamble, Cintas, CDW, and EDS. In addition, the College hosts an Internship Fair each year. There have been a growing number of companies expressing interest in our students and attending the fair.

Students and employers are encouraged to contact Angela Anderson, Assistant Dean for Career Resources, at 740.593.2009 or andersoa@ohio.edu for more information.

International Experiences

The Center for International Business Education and Development offers international opportunities for students in the College of Business. The Global Competitiveness Program offers several opportunities during the first summer session in 2004, including locations in Dijon, France; Leipzig, Germany; Thessaloniki, Greece; Ancona, Italy; Pécs, Hungary; Wuhan, China; Tartu, Estonia; Aalborg, Denmark; Pau, France; and Győr, Hungary. Students in these programs earn 12 credit hours from various courses in business. Highlights include consulting projects with area firms and the opportunity to experience local cultures.

London Program

Another program offered by the Center for International Business Education and Development during first summer

session each year is the London Program. Students in this program earn 8 credit hours. This program is open to students across the University.

For more information, contact the director, Center for International Business Education and Development, Copeland Hall 514C, telephone 740.593.2021, fax 740.593.1388, e-mail cibed@ohio.edu.

International Exchange Programs

The College of Business has exchange programs with Amsterdam School of Business, the Netherlands; University of Limburg, Belgium; Sup de Co Rennes, France; Sup de Co Clermont, France; Helsinki School of Economics, Finland; University of Vaasa, Finland; Asturias Business School, Spain; and Kiel University, Germany. Students at the junior and senior level may spend a semester or a year (two semesters) at one of these schools and receive credit for core and elective business courses in the Ohio University curriculum.

Language requirements vary, as many courses are taught in English.

Tuition is paid directly to Ohio University at current rates. You pay your own living costs (travel, room, board, books, insurance, personal needs, etc.).

For more information, contact the director, Center for International Business Education and Development, Copeland Hall 514C, telephone 740.593.2021, fax 740.593.1388.

For additional information about education abroad, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

You may receive credit for other overseas programs offered by Ohio University or other U.S. colleges after making arrangements with your advisor and the College's Office of Student Services.

Global Leadership Center

For information about the Global Leadership Center, refer to the program description in the College of Communication section or visit <http://www.ohio.edu/glc/>.

Enrollment Policies

Freshman Policy

Freshmen will be admitted into the college on a selective basis. Normally, you will need to be in the top 20 percent of your high school class with a strong college preparatory curriculum. You are expected to have above-average ACT or SAT scores, and also have demonstrated leadership potential through participa-

tion in extracurricular activities or work experience. Members of groups that are historically underrepresented in business will receive special consideration.

Transfer Policy

Any student considering transfer to the College of Business is strongly encouraged to contact the College's Office of Student Services as early as possible. You must be enrolled in the College before your senior year to allow for the College's 48-hour residency requirement. You must earn at least 50 percent of the business credit hours required for the business degree at Ohio University.

Transferring from Within Ohio University

There are two conditions under which you are eligible to be considered for transfer into the College of Business. One condition is that you have completed ECON 103, ECON 104, MATH 163A, and ENG 151, 152, or 153 and have a cumulative g.p.a. of 3.0 or higher. The second condition is that you have a cumulative g.p.a. of 2.75–2.99 and a minimum 3.0 g.p.a in the four courses listed above.

Applications for transfer into the College will be accepted each spring quarter. The College admissions committee reviews applications once per year at the close of spring quarter. Successful applicants will be admitted to the College during the summer. The transfer application is available online at the following URL: <http://www.cob.ohiou.edu/advising/transferinsideou.htm>:

Applicants who meet the minimum requirements as described above are generally able to be admitted into the College. In the event that we have more transfer applications than we have available, transfer decisions will be made on a selective basis.

From Outside Ohio University

Admission to the College of Business from an educational institution outside of Ohio University is selective. Application is made through the Ohio University Office of Admissions. To be eligible for consideration, applicants must have completed courses equivalent to each of the following four courses (ECON 103, ECON 104, ENG 151, 152, or 153, MATH 163A) and have a minimum cumulative grade point average of 3.0 (on a 4.0 scale) from a four year college or university. Students transferring from two-year schools must have completed these courses and hold a minimum cumulative g.p.a. of 3.2.

On-line Transfer Application

To apply from within Ohio University, complete the on-line CoB transfer application (only available May 1st–31st), at the following URL:

<http://www.cob.ohiou.edu/advising/transferapplication/>

Once You Have Applied:

Applications will be reviewed after spring quarter grades have been recorded, which is around June 15 each year. Decision letters will be mailed to whatever address you listed on your application around July 15th.

To transfer from another university, submit the standard documents required by the Office of Admissions. You will be notified as early as possible of the admission decision.

Freshman Drop Policy, Academic Probation, and Dismissal

In addition to the University regulations listed in the Academic Policies and Procedures section, the college has established probation and drop regulations.

Freshman Drop Policy

Any freshman admitted to the College of Business on the Athens campus during the fall quarter who has earned less than a 2.5 accumulative g.p.a. after his or her first three academic quarters will be dropped from the College of Business.

Grades will be reviewed at the end of spring quarter. Freshmen with an accumulative g.p.a. that is less than 2.5 at that time will have a "hold" put on their academic records, making them unable to register for future classes until they transfer out of the College of Business and into another Ohio University college for which they are eligible.

Students should realize that if they are dropped from the College of Business, the prospect of transferring back into the College is unlikely. This is due to the high level of interest and the limited number of positions available to transfer students.

Note: COB freshmen who earn a fall quarter g.p.a. of less than 2.75 will be required to attend an academic success workshop.

College Probation and Dismissal

At the close of a quarter in which your accumulative g.p.a. falls below a 2.0, you will be placed on college probation. You will remain on college probation until your accumulative g.p.a. is

above 2.0, but for no longer than two quarters. If you have not raised your accumulative g.p.a. to at least 2.0 after two quarters of college probation, you will be dismissed from the College of Business. If you are dismissed from the College of Business with a g.p.a. based on these college probation standards, but do not qualify for academic dismissal under the University standards, you may be able to transfer into another college within Ohio University. At that time the Ohio University standards for University-level academic probation and dismissal will apply.

It is important to be aware that the minimum academic standards for the College of Business are at a higher level than the minimum academic standards for Ohio University. Please familiarize yourself with the University policy for academic probation and dismissal, which can be found in the Academic Policies and Procedures section of this catalog.

Retaking a Core Course

You will be limited to three attempts at the college's core courses. If you have made three unsuccessful attempts at a required core course, you will be notified that you have been dropped from the college.

To attempt a course is to be enrolled long enough for the course to appear on the transcript or grade report. A letter grade, W, WP, WF, or grade replacement counts as an attempt. Attempts at another institution count toward the limit if you take the course as a transient student after enrollment in the College of Business.

Core courses include ACCT 101, 102; BA 100A, 100B, 240 (or 340), 250 and 470; BUSL 255; FIN 325; MGT 240; MIS 201B, 202; MKT 240; OPN 310; PRCM 150 and QBA 201.

For students on the Athens campus, BA 240, BA 250, MGT 240, MIS 202 and MKT 240 must be taken in a 17-credit-hour cluster during your late sophomore/early junior year (see recommended course sequence). Students failing one course in the cluster will be required to retake the course in a stand-alone or other equivalent form. Students failing more than one course in the cluster may be required to retake the entire cluster. This does not apply to students on the regional campus who will fulfill the cluster requirement via a single four-credit BA 340 cluster project course in place of the BA 240 course.

If you need to retake a core course that is part of a cluster, go to the Office

of Student Services to determine what needs to be done and obtain permission to get into the appropriate classes.

Minors

College of Business students may choose to complete a minor offered by another area within the University.

Students who are not enrolled in the College of Business may complete a business minor. Requirements for the minor are listed at the end of the business curricula.

Due to accreditation standards, students outside the college are allowed to complete only 44 hours of business coursework.

Requirements for All B.B.A. Majors

As a candidate for the Bachelor of Business Administration (B.B.A.) degree, you must complete the University's General Education Requirements for graduation and fulfill a minimum of 192 quarter hours of credit with a g.p.a. of 2.0 for all hours attempted. You must also maintain a 2.0 g.p.a. for courses taken in business and economics, and a 2.2 g.p.a. for courses in your major. The College of Business limits transfer credit for required business courses taken at a lower level to such courses as it offers at that lower level. Other transfer credits accepted by the University are evaluated as either business or nonbusiness electives.

Courses included in the 192-hour minimum for the B.B.A. must be chosen so that at least 79 quarter hours are earned in areas of business and economics and at least 96 quarter hours are earned in nonbusiness areas.

Majors

All B.B.A. candidates must complete a core of courses covering the tools of analysis and the operational fields of business plus the requirements for one of the following majors:

Accounting**Business Economics****Business Prelaw****Finance****General Business****Human Resource Management****International Business****Management and Strategic Leadership****Management Information Systems****Marketing**

The Business Prelaw, Business, and International Business majors require the completion of a second major. You can change your major or add a second major through the Office of Student Services.

Core Curriculum

The following courses are taken individually: BA 100A, 100B; ACCT 101, 102; PRCM 150; MIS 201B, QBA 201; BUSL 255; FIN 325; OPN 310 and BA 470.

At the sophomore level, four business core courses are grouped with a one-credit cluster project course (BA 240) to form an integrated, 17-hour cluster under the BUS202i sections which include:

MGT 240, MKT 240, MIS 202, BA 250 and BA 240 (1 credit)

Core cluster sections are identified in each quarter's Schedule of Classes under the "Business Cluster" section. Every business student must complete these courses in the cluster format.

Students enrolling on the regional campuses will take these courses individually, followed by a 4-credit cluster project course (BA 340) instead of the BA 240 course.

Nonbusiness Requirements

You must complete the following nonbusiness courses:

Communications: 5 hours

ENG 151, 152, or 153 Freshman Composition 5 (1E)

Mathematics: 8 hours

MATH 163A Intro to Calculus 4 (2N)

MATH 250 Intro to Probability 4

Economics: 8 hours

ECON 103 Prin. of Microeconomics 4 (2S)

ECON 104 Prin. of Macroeconomics 4 (2S)

Performance Portfolio: 8 hours

ART 112 Intro to Photography 4

ART 113 Three Dimensional Studies 4

ART 116 Drawing I: Descriptive Process 4

ART 117 Drawing II: Concepts, Space, and Time 4

ART 118 Drawing III: Process and Synthesis 4

DANCE 101A-103C, 201A-203A, 2018, 2028 varies

FILM 340 Film Techniques 4

FILM 343 Scriptwriting 4

HSL5 107 Voice and Articulation 2

COMS 103 Public Speaking 4

COMS 205 Group Discussion 4

COMS 206 Communication in Interpersonal Relationships 4

COMS 215 Argumentative Analysis 4

COMS 304 Principles and Techniques of Interviewing 4

COMS 306 Interpersonal Conflict Management 4

COMS 342 Comm. and Persuasion 4

COMS 410 Cross-Cultural Commun. 4

JOURN 133 Precision Language 4

MUSIC 141A, 142A, 143A, 147A, 165A, 166A, 215A-361 2-4

ROTC 201 Basic Skills III 2

ROTC 202 Intro. to Leadership/Team Building 2

TCOM 110 Telecommunication Writing and Production Planning 4

THAR 113 Acting Fundamentals I 4

THAR 213 Acting Fundamentals II 4

Internships

Internship credit applied toward the Performance Portfolio cannot be double-counted as hours toward major. International internships applied to the Global Perspective requirement will not count toward Performance Portfolio.

ACCT 398 or 498	Internship	1-4
BUSL 398 or 498	Internship	1-4
FIN 398 or 498	Internship	1-4
HRM 398 or 498	Internship	1-4
MGT 398 or 498	Internship	1-4
MIS 398 or 498	Internship	1-4

Global Perspective: 12 hours

12 hours of a modern foreign language (211, 212, 213) or successful completion of a 16-hour Global Competitiveness Program experience as outlined under the "Study Abroad" section of the College of Business portion of this catalog (contact the COB Center for International Business at 740.593.2021 for more information about this option) or 12 hours of approved coursework from one or more departments focusing on a single geographic region from one of the following:

Asia

ANTH 385	Cult. of Southeast Asia	4
CLWR 311	Islam	4 (2C)
CLWR 321	Hinduism	4 (2C)
CLWR 331	Buddhism	4 (2C)
CLWR 341	Taoism	5 (2C)
GEOG 338	Southeast Asia	4
HIST 133	Non-Western Hist Since 1750	4 (2C)
HIST 246	The Rise of Modern Asia	4 (2C)
HIST 344A	Hist. of the Malay World	4
HIST 344B	Hist. of Burma and Thailand	4
HIST 344C	Hist. of Vietnam	4
HIST 345A	Southeast Asia to 1750	4 (2C)
HIST 345B	Southeast Asia 1750 to 1942	4 (2C)
HIST 345C	Southeast Asia 1942 to Present	4 (2C)
HIST 346C	Ancient China	4
HIST 346D	Imperial China 1200-1910	4
HIST 346E	Modern China Since 1911	4
HIST 348A	Traditional Japan	4
HIST 348B	Modern Japan	4
HIST 449	Hist. of East Asia in Modern Times	4
INST 103	Modern Asia	4 (2C)
JPC 250	Intro to Culture of Japan	4
POLS 445	Govt. and Pol. of Japan	4
POLS 447A	Govt. and Politics of Southeast Asia	4

Africa

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
ANTH 381	Cultures of Sub-Saharan Africa	4
GEOG 331	Geography of Africa I	4
HIST 133	Non-Western Hist Since 1750	4 (2C)
HIST 336A	North Africa in Modern Times	4
HIST 336B	North Africa Since 1914	4
HIST 338	History of West Africa	4
HIST 338A	History of East Africa	4
HIST 341A	Early Africa	4 (2C)
HIST 341B	Traditional Africa	4 (2C)
HIST 341C	Modern Africa	4 (2C)
HIST 342A	South Africa to 1899	4
HIST 342B	South Africa Since 1899	4
HIST 343	Revolution in Southern Africa	4
INST 113	Modern Africa	4 (2C)
POLS 441	Govt. and Pol. of Africa	4
POLS 464	Africa and the OAU	3

Europe

ECON 353	European Economic Hist.	4	AAS 250
FR 348	French Civilization and Culture	4	AAS 341
GEOG 330	Geog. of Western Europe	4	AAS 345
HIST 123	Western Heritage	4 (2H)	AAS 350
HIST 364B	Contemporary Europe	4	AAS 352
HIST 366B	Modern France	4	AAS 482
HIST 368B	Modern Germany	4	ANTH 345
HIST 372C	Balkans in the 20th Century	4	HIST 302
HIST 375	World War I	4	HIST 313
HIST 382A	History of Russia	4	HIST 315B
HIST 382B	Communist Revolution	4	HIST 320B
HIST 382C	Soviet Union	4	HLTH 427
HIST 382D	USSR in World War II	4	COMS 420
HIST 392C	20th Century England	4	POLS 306
INST 118	European Studies	4 (2C)	POLS 319
POLS 432	Policy Making in Russia	4	POLS 323
RUS 348	The Cult. Hist. of Russia	4	POLS 420
SPAN 348	Spanish Civilization and Culture	4	POLS 478

Latin America

ANTH 383	Cultures of Latin America	4	WS 100
GEOG 335	Latin America	4	WS 200
HIST 123	Western Heritage	4 (2H)	
HIST 323A	Latin American History: Colonial Era	4 (2C)	
HIST 323B	Latin American History: 19th Century	4 (2C)	
HIST 323C	Latin American History: 20th Century	4 (2C)	
HIST 323D	History of Brazil	4	
HIST 325	Hist. of U.S.-Latin American Relations	4	
HIST 426	Dictatorship in Latin American History	4	
INST 121	Interdisciplinary Survey of Latin America	4 (2C)	
POLS 434	Govt. and Politics of Latin America	4	
POLS 435	Revolution in Latin America	4	
SPAN 349	Spanish American Civilization and Culture	4	

Middle East

ANTH 388	Cultures of the Middle East	4	
HIST 133	Non-Western Hist Since 1750	4 (2C)	
HIST 332	History of Women in the Middle East	4	
HIST 333	Oil, Energy, and International Diplomacy	4	
HIST 334	The Arab-Israeli Dispute	4	
HIST 335A	Survey of Middle East History to 1800	4 (2C)	
HIST 335B	Survey of Middle East History Since 1800	4 (2C)	

Note: Additional global courses in any area will be considered upon request through the COB Office of Student Services

Breadth Cluster: 16 hours

One approved course from each of the following areas:

Ethical issues

BA 480	Ethics and Morality in Business	4	
JOUR 412	Ethics, Mass Media, and Society	3	
PHIL 130	Intro to Ethics	4 (2H)	
PHIL 231	Philosophy of Sport	4	
PHIL 235	Business Ethics	3	
PHIL 330	Ethics	5	
PHIL 331	Moral Problems in Medicine	4	
PHIL 332	Philosophy of Sex and Love	4	

Diversity issues

AAS 106	Intro to African Amer. Studies	4	
AAS 150	Intro to Black Media	5 (2H)	
AAS 220	Theories of African Amer. Social Development	4	

Found. of African Amer. Arts and Culture 4 (2H)

African Amer. Personality	4
The Black Woman	4
African Amer. Arts and Artists	4 (2H)
Blacks in Contemporary Amer. Cinema	4 (2H)
The Black Family	5
Gender in Cross-Cultural Perspective	4
American Indians	4
Jews in American History	4
Hist. of African Americans Since 1865	4 (2S)
Women in Amer. Hist. Since 1877	4
Health of Women	4
Gender and Communication	4
Politics of Appalachia	5
Gay and Lesbian Politics	4
Black Politics in the U.S.	4
Women, Law, and Politics	4
Feminist Political Theory and Movements	5
Sociology of Appalachia	4
Intro to Women's Studies	4 (2H)
Issues in Feminism	4

Economics

If your major is accounting, management information systems, management, human resource management, business law, general business, international business, entrepreneurship, or business economics, take any 300- or 400-level economics course except ECON 300, 307, or 381. If your major is finance or marketing, take ECON 305.

Political/legal/social issues

AAS 202	African American Hist. II 1865 to Present	4 (2S)
AAS 254	History of Injustice in the U.S.	5
AAS 360	Black Politics in the U.S.	4
AAS 364	Comp. Study of Injustice	4
AAS 368	Black Political Thought	4
AAS 370	Urban Violence	4
AAS 430	Social Theories of Underdevelopment	4
BUSL:	any course except 255 and course used to satisfy major or other requirements	
ECON 213	Current Econ. Problems	4
ECON 315	Economics of Health Care	4
ECON 316	Economics and the Law	4
GEOG 121	Human Geography	4 (2S)
GEOG 131	World Regional Geog.: Third World	4 (2T)
GEOG 132	World Regional Geog.: Industrial World	4 (2S)
GEOG 220	Economic Geography	4 (2S)
HIST 101, 102, or 103	Western Civilization in Modern Times	4
HIST 121 or 122	Western Heritage	4
HIST 200, 201	U.S. History	4
POCO 201	Intro to Political Communication	3
POLS:	any course except 306, 319, 323, 420, 425, 428	
SOC 223	American Society	4 (2S)
SOC 230	Sociology of Poverty	4
SOC 231	Sociology of Health and Health Care	4
SOC 240	The Future of Society	4
SW 101	Intro to Social Welfare and Social Work	3 (2S)

Recommended Course Sequence**Freshman**

BA 100A	Intro to Coll. of Business I	1
BA 100B	Intro to Coll. of Business II	1
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4

ENG 151, 152, or 153	Freshman Composition	5
MATH 163A	Intro to Calculus	4
MATH 250	Intro to Probability	4
PRCM 150	Business Comm. Basics	4
Approved electives (nonbusiness requirements)		21

Note: see Freshman Drop Policy, page 113

Sophomore

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
MIS 201B	Intro to Information Analysis and Design	4
QBA 201	Intro to Statistics	4
BUSL 255	Business Law	4

Business Cluster

BA 240	Business Cluster Project	1
BA 250	Strategic Business Communication	4
MGT 240	Intro to Management and Organization	4
MIS 202	Business Info. Systems	4
MKT 240	Marketing Principles	4
Approved electives (nonbusiness requirements)		15

Junior

FIN 325	Managerial Finance	4
OPN 310	Principles of Operations	4
Major courses and approved electives		40

Senior

BA 470	Administrative Policy	4
Major courses and remaining electives		44

Accounting Major

Major code BB6121

The mission of the School of Accountancy is to prepare bright men and women for successful careers in the accounting profession. We provide a superior education with competent professors who challenge their students to excel and who support their students' professional aspirations.

Students who perform well in the undergraduate program can earn the M.S. in Accountancy, in addition to the B.B.A., by completing a fifth year of study as a graduate student. Additional information about this program is available from the *Graduate Catalog* or by contacting the School of Accountancy.

Program Requirements

Accounting majors must complete the college's business core curriculum, professional performance portfolio, global perspective requirements, and the breadth cluster of courses. BUSL 357 is required to fulfill the political/legal/social area of the Breadth Cluster. The major consists of seven required accounting courses. Timely enrollment in the major courses is essential to completion of the degree within four years. These courses are listed below. Accounting majors should take ACCT 101 and ACCT 102 in their freshman year.

For information about the CPA exam, visit the Accountancy Board on the Web at <http://www.acc.ohio.gov/>

Major courses required of all accounting majors

ACCT 317	Federal Income Taxes	4
ACCT 303, 304, 305	Inter. Accounting	12
ACCT 310	Cost Accounting	4
ACCT 345	Accounting Systems and Internal Control	4
ACCT 451	Auditing Principles	4

Business Economics Major

Major code BB6124

The B.B.A. business economics major, designed to provide a broad business background, is intended for those who plan careers in business and economic research for both private firms and government, in banking, and in marketing analysis. It also is an important component for business management, law, operations, and financial analysis.

In addition to completing the B.B.A. core requirements, you must complete at least 20 additional hours of economics including ECON 304 and 485. ECON 380 and 381 cannot be counted toward this requirement. No economics course can be counted toward both nonbusiness and major requirements.

Business Prelaw Major

Major code BB6120

While law schools do not prescribe any rigid undergraduate curriculum, a substantial number of prelaw students choose one of the business fields of study as their major for the baccalaureate degree. You may wish to combine the business prelaw major with one of the other majors in the College of Business if the profession of law is your ultimate career goal.

The business prelaw major recognizes the business and economic emphasis of the practice of law and also provides the breadth of training and philosophical background that is conducive to success in law school.

You must complete the requirements for the business prelaw major in conjunction with the requirements for one of the other business majors, which include accounting, business economics, finance, general business, human resource management, management, management information systems, marketing, and operations. In addition to following the requirements of one of the other majors in the College of Business, you must complete 16 hours at the 300–400 level, including BUSL 356 and four additional hours in business law beyond 356, with the approval of your advisor. Another eight hours should be selected from the following: ACCT 317 Federal Income Taxes, ECON 430 Public Finance, GEOG 357 Environmental Law, HRM 425 Labor Relations, POLS 401 and 402 Constitutional Law, POLS 409 Law Enforcement, POLS 304 State Politics, POLS 374 Great Jurists, POLS 413 Administrative Law, FIN 331 Insurance, and FIN 341 Investments. (You may request from your advisor written permission to substitute a course different from those listed above.) With your advisor's approval, you should elect additional courses in nonbusiness fields, especially American government, American and English history, English, philosophy, interpersonal communication, and in such business fields as finance.

The law faculty in the College of Business is prepared to assist prelaw students in a number of ways:

- 1 Several faculty members give extensive time to counseling students regarding selection of courses, the Law School Admission Test (LSAT), law school application procedures, and other matters of importance to prelegal education.
- 2 LSAT and Law School Data Assembly Service (LSDAS) information is available from the prelaw advisor.
- 3 The department maintains ties with the Criminal Justice Program administered by University College.
- 4 The department maintains ties with faculty and staff at various law schools in the country.

Finance Major

Major code BB6125

The finance major prepares students for the dynamic environment of corporate finance and financial services. Coursework is available in the fields of financial management (both national and international), commercial banking, financial institutions, security markets, and risk and insurance.

Upon graduation, finance majors typically obtain entry-level positions in such areas as banking, insurance, government services, or in an array of industries that employ financial analysts, decision makers, financial strategists, budgeting officers, and planners.

In addition to the B.B.A. core requirements, finance majors must complete 24 hours of finance courses at the 300 and 400 level, including FIN 327, 341, and 461.

Note: Finance majors are advised to take the courses in the "Introduction to Business Systems" cluster on a stand-alone basis. This requires that the "Business Context Cluster" be taken in the fully integrated format.

General Business Major

Major code BB6122

The general business major prepares professionals on a broad basis for business careers. Five upper-level courses are required from the following areas: accounting, quantitative business analysis, management, management information systems, business law, finance, marketing, operations, business administration, and economics (course selection restricted to ECON 303, 304, 320, 332, 360, or 430). Each course will be in a different functional area or discipline. This major is of special interest if you have a generalized view of business and do not possess strong interests in any one concentration.

Upon graduation, general business majors enter what may be the broadest area of positions of any major within the College of Business. Recent graduates have entered such fields as sales, banking, government services, personnel, advertising, small business entrepreneurship, production, and insurance.

Human Resource Management Major

Major code BB6130

The demand for human resource management professionals capable of operating as functionally trained strategic partners in organizations is growing rapidly.

The human resource management major provides an educational background for those with a career interest in human resource management. The major provides basic preparation for entry-level positions in human resource management and the educational background that supports career advancement in this area. It also prepares you for a variety of positions in which knowledge of human resource management is critical to success.

In addition to the B.B.A. requirements, you must complete HRM 324 Advanced Concepts in Human Resource Management (this is recommended for majors) or HRM 320 Principles in Human Resource Management. HRM majors are encouraged to take HRM 324, as it is a more in-depth treatment of HRM than is HRM 320. Also required are HRM 430 Compensation and HRIS, HRM 440 Training Development and Performance Management, HRM 450 Recruitment and Selection, HRM 460 Strategic HRM, and MGT 340 (Managing Transformation and Organizational Change.)

You are also required to complete one elective from the following: HRM 425 Employee Relations, HRM 455 International HRM, HRM 491 Employment Law (or any other HRM 491), MGT 350 Creativity and Innovation Management, MGT 490 Strategic Business Leadership.

HRM 324 or HRM 320 is a prerequisite for HRM 430, 440, 450, and 460. HRM 460 may only be taken after passing HRM 430, 440, and 450. Therefore, it is important to take HRM 324 in the fall quarter of your junior year. Fall quarter is generally the quarter that the course is offered.

HRM 324, 430, 440, 450, and 460 are offered only once a year. If you fail to take one of these courses during the year, you must wait until the following year. Generally, 430 is offered in fall quarter, 440 and 450 are offered in winter quarter, and 460 is offered in spring quarter.

You may want to join the Ohio University student chapter of the Society for Human Resource Management (SHRM), the professional association for human resource management practitioners. The student chapter regularly brings in human resource managers as speakers; plans field trips; performs community service work, and provides opportunities for you to get involved in human resource management activities.

International Business Major

Major code BB6132

In today's global economy, all businesses—whether large or small—are affected by international competitors and global events. Success in the global marketplace will depend on the capabilities of managers to understand the structures and processes that underlie international business. The international business major is designed to provide this understanding and to develop the requisite competencies of global business leaders. Students will be required to complete a minimum of 25 credit hours at the 300 and 400 level beyond the minimum requirements for the College of Business. The international business major must be completed in conjunction with at least one other major in the College excluding the business pre-law and general business majors.

The major requires all students to complete the following courses for a total of 13 credits:

Business Administration 385: Multinational Business Management 484: International Comparative Business Administration 485 (1 credit): International Business Experience Marketing 441: International Marketing

The required course Management 485 ensures that all students complete a credible international experience as a platform for understanding business practices in an international context. The experience must be approved and assessed by a faculty qualified in international business. The experience will be reflected in a summary paper that describes what was learned and the significance of the experience to the student's future career. Typically the experience would involve travel to an international assignment for the purpose of developing an understanding and appreciation of international business in context. A CR must be achieved to graduate with the international business major.

In addition to the above course requirements, students are required to select a minimum of three courses from the approved electives list with the restriction that at least one course be in finance or economics. These courses include Economics 340, 341, 342; Finance 455; Management 486; Geography 321; Business Law 385; Political Science 456;

Interpersonal Communications 410; and any 491 seminar course with an international emphasis which is approved by your advisor.

It is strongly recommended that students achieve proficiency in a foreign language, which normally means a minimum of 12 credit hours of instruction.

Management and Strategic Leadership Major

Major code BB6126

Today's dynamic and highly competitive businesses require energetic and capable leaders who can add value and create high performance at all levels of enterprise responsibility. The major in Management and Strategic Leadership is designed to create the foundations of knowledge and personal capability requisite to life-long professional learning and career-long success in business leadership.

Success in strategic business leadership requires a broad base of conceptual knowledge, personal skills and competencies. The required courses ensure a variety of rich developmental experiences that can include community service learning, individual leadership and emotional intelligence assessments, case analyses, research projects, team-based active learning projects, and guest speakers, in addition to traditional classroom lectures and discussions. The major places a strong emphasis on written and oral communications skills, teamwork, and personal initiative.

The major in Management and Strategic Leadership requires six courses and 21 hours of study.

MGT 340	Organizational Behavior—Micro Perspective	4
MGT 350	Creativity and Innovation in Organizations	4
MGT 480	Business Organizations—Change and Development	4
MGT 490	Strategic Business Leadership	4
MGT 499	Strategic Business Leadership Portfolio	1
	MGT Elective To be selected with approval of the advisor from any 300-level or 400-level MGT	4

Students who would like to include a substantial portion of the Management and Strategic Leadership Major as a component in another program of study from within or outside the College of Business are encouraged to do so. Participation in this capacity requires that the prerequisite course, MGT 240 Management, be completed with a grade of C or better. It is strongly encouraged that such participation include the four core courses of MGT 340, 350, 480, 490.

Majors in Management and Strategic Leadership within the Department of Management Systems will be required to successfully defend their personal Strategic Business Leadership Portfolios in order to graduate. This portfolio will be initiated in the prerequisite MGT 240 course and will be further developed in each of the required courses in the major. The portfolio will be reviewed annually with the student's major advisor. The final defense will be "Pass/Fail" and will be accomplished through participation in MGT 499, Strategic Business Leadership Portfolio.

Additional electives from course offerings in management within the Department of Management Systems are also available for those wishing to pursue further study. Students should also check the Department of Management Systems web site at <http://www.cob.ohiou.edu/~MGTSys/> to learn about available courses and any modifications in the major.

Management Information Systems Major

Major code BB6137

The management information systems (MIS) major is unique in its emphasis on applying computers to build information systems for business applications; the approach is applications oriented rather than technical. MIS majors are trained to assist with the rapidly progressing computerization of managerial functions and can expect to become business analysts and project managers involved in the systems development lifecycle.

The hands-on emphasis of the program exposes you to current Web development environments and systems development tools used to design solutions to common business problems. This training is designed to produce graduates who can quickly master computer technology so they will be able to adapt quickly to new technology and apply it to business problems. Being able to communicate with both management and computer specialists makes MIS graduates ideal candidates in organizations that make use of information systems and consulting companies.

In addition to the B.B.A. core curriculum, you must complete MIS 220, 320, 325, 380, 400, 420, and 485. One additional course must be completed from MIS 460, 430, 455, 480, or 491. Elective courses include MIS 230 and 235.

Marketing Major

Major code BB6127

Marketing is the lifeline of any organization. It links the organization with its customers and is vital not only to the survival of the organization but also to the maintenance of the free enterprise system. The marketing curriculum is designed to give you both broad knowledge and an opportunity to specialize. It prepares you to become a marketing professional through coursework in personal selling and sales management, marketing research and consumer behavior, and marketing analysis and management (national and international).

Upon graduation, marketing majors typically obtain direct-entry positions in such areas as sales, retail management, product/brand management, market research, and marketing logistics with companies that specialize in offering products/services to consumers or other businesses.

In addition to the College of Business core requirements, you must complete 25 hours of marketing courses at the 300–400 level including MKT 358, MKT 379, MKT 444, and MKT 463.

Business Minor

Minor code ORBSAD

The business minor is open to any student enrolled outside the College of Business. Be advised that some courses require prerequisites.

Required courses

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4
One of the following six courses:		
ECON 381	Intro to Economic Statistics and Econometrics	4
GEOG 271	Intro to Statistics in Geography	5
COMS 301	Empirical Research Applications in Comm.	4
ISE 306	Engineering Statistics II	4

MATH 251	Intro to Prob and Stats II	4
PSY 221	Statistics for the Beh. Sci.	5
QBA 201	Intro to Bus. Statistics	4
All of the following four courses:		
FIN 310	Managerial Finance	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
OPN 300	Principles of Operations	4

Total hours: 32

Due to accreditation standards, students outside the college are allowed to complete only 44 hours of courses in the business curriculum.

The Sales Certificate

The College of Business through The Sales Centre at Ohio University sponsors the undergraduate Sales Certificate Program for students in any major who want to develop knowledge and skills in professional selling. There are currently five options in the Sales Certificate program, the Sales Certificate with a Professional Focus, the Sales Certificate with a Retail Focus, the Sales Certificate with a Media Focus, the Sales Certificate with a Financial Services Focus, and the Sales Certificate with a Sport Management Focus. Completion of a Sales Certificate Program, which is the equivalent of a minor, results in the certificate and is officially recognized on transcripts upon graduation. Several certificate courses satisfy both tier and College of Business requirements. Be advised that some courses require prerequisites.

For admission into The Sales Certificate Program, submit to The Sales Centre, Copeland 609, the following: 1) a completed application form; 2) a copy of your most recent DARS (Degree Audit Reporting System) result indicating an overall g.p.a. of at least 2.75; and 3) your resume demonstrating characteristics that support a successful sales career. In addition, you must have a panel interview with Sales Centre faculty and a current Sales Certificate Candidate. Application forms may be obtained from any college's undergraduate office or by visiting <http://www.thesalescentre.com/>.

Admission to this program is competitive and not guaranteed to all who meet the admission criteria. Students with the highest probability of success will be admitted up to the enrollment ceiling. Members of groups historically under-represented in business will receive special consideration.

Each quarter those accepted into the Sales Certificate Program will have their progress tracked by DARS. An overall g.p.a. of 2.5 in certificate courses is required. Students will need to consult the Executive Director of The Sales Centre before the deadline for graduation to ensure that the certificate will be awarded. For more information contact the Executive Director or Associate Directors of The Sales Centre.

The Sales Certificate with a Professional Focus Required courses

MKT 358	Professional Selling Techniques	4
MKT 458	Sales Management	4
MKT 498	Sales Internship	4

Advanced Courses (must select one):

MKT 425	Business to Business Marketing	4
MKT 491	Seminar—Sales	4

Communication Requirement (must select one):

COMS 215	Argumentative Analysis and Advocacy	4
COMS 206	Communication in Interpersonal Relationships	4

In addition to the courses listed above, two cross-disciplinary courses (8 hours) are needed to fulfill the 28 hour requirement. The following courses are suggested*:

ET 280	Engineering and Technology-Overview	4
IT 110	Intro to Manufacturing	4
PHIL 130	Intro to Ethics	4
THAR 113	Acting Fundamentals I	4
THAR 170	The Theater Experience	4

*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the Executive Director of The Sales Centre.

Total hours: 28

The Sales Certificate with a Retail Focus

Core Requirements

MKT 358	Professional Selling Techniques	4
HCRM 399B	Retail Sales Internship	4
MKT 458	Sales Management	4

Advanced Courses (must select one):

MKT 425	Business to Business Marketing	4
MKT 444	Consumer Behavior	4

Retail Merchandising Requirement:

HCRM 250	The Consumer in American Society	4
HCRM 423	Retail Merchandising: Promotional Strategies	4
or HCRM 417	Retail Merchandising: Management	

Electives (must select one):

In addition to the courses listed above, one additional course (4 hours) is needed to fulfill the 28 hour requirement. The following courses are suggested*:

COMS 206	Communication in Interpersonal Relationships	4
COMS 215	Argumentative Analysis and Advocacy	4
COMS 342	Communication and Persuasion	4
PHIL 130	Introduction to Ethics	4
THAR 113	Acting Fundamentals I	4
THAR 170	The Theater Experience	4

*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the Executive Director of The Sales Centre.

Total hours: 28

The Sales Certificate with a Media Focus

Core Requirements

MKT 358	Professional Selling Techniques	4
MKT 458	Sales Management	4
MKT 498	Sales Internship in Media Sales	4

Advanced Courses (must select one):

MKT 425	Business to Business Marketing	4
MKT 491	Seminar—Sales	4

Communication Requirement:

JOUR 250	Advertising Principles	4
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Cross-disciplinary Requirements (must select two):

In addition to the courses listed above, two additional cross-disciplinary courses (8 hours) are needed to fulfill the 28-hour requirement. The following courses are suggested*:

JOUR 340	Advertising Strategies	4
JOUR 375	Advertising Media Planning and Buying	4
JOUR 475	Advanced Advertising Media Planning and Buying	4
JOUR 477	Promotional Media	4
TCOM 459	Audience Research	4
TCOM 462	Broadcast and Cable Sales	4

*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the Executive Director of The Sales Centre at Ohio University.

Total hours: 28

The Sales Certificate with a Financial Services Focus**Core Requirements**

MKT 358	Professional Selling Techniques	4
MKT 458	Sales Management	4
ACCT 498 or FIN 498	Internship	4

Advanced Courses (must select one):

MKT 420	Services Marketing	4
MKT 491	Seminar-Sales	4

Communication Requirement (must select one):

COMS 206	Communication in Interpersonal Relationships	4
COMS 215	Argumentative Analysis and Advocacy	4
COMS 342	Communication and Persuasion	4

Cross-disciplinary Requirements (must select two):

In addition to the courses listed above, two additional cross-disciplinary courses (8 hours) are needed to fulfill the 28 hour requirement. The following courses are suggested*:

FIN 331	Risk and Insurance	4
FIN 410	Personal Financial Planning	4
FIN 428	Management of Financial Institutions	4
FIN 436	Life Insurance	4
FIN 437	Personal and Business Financial Planning	4
FIN 440	Group Insurance and Benefits	4
ACCT 317	Federal Income Taxes	4
ACCT 406	Advanced Accounting	4
ACCT 451	Auditing Principles	4
ACCT 491	Seminar in Taxation	4

*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the Executive Director of The Sales Centre at Ohio University.

Total hours: 28

The Sales Certificate with a Sport Management Focus**Core Requirements**

MKT 358	Professional Selling Techniques	4
MKT 458	Sales Management	4
MKT 498	Sales Internship	4

Advanced Courses (must select one):

MKT 420	Services Marketing	4
MKT 491	Seminar-Sales	4

Sports Management Requirement:

SASM 440	Ticket Operations	4
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Cross-disciplinary Requirements (must select two):

In addition to the courses listed above, two additional cross-disciplinary courses (8 hours) are needed to fulfill the 28 hour requirement. The following courses are suggested*:

COMS 206	Communication in Interpersonal Relationships	4
COMS 215	Argumentative Analysis and Advocacy	4
HCRM 250	The Consumer in American Society	4
HCRM 423	Retail Merchandising: Promotional Strategies	4
or HCRM 417	Retail Merchandising: Management	4

*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the Executive Director of The Sales Centre at Ohio University.

Total hours: 28

Scripps College of Communication

<http://www.commcoll.ohiou.edu/>

Radio-Television Building 497

Gregory J. Shepherd
Dean

David Mould
Associate Dean

Florence Clark Riffe
Assistant Dean

The Scripps College of Communication includes the School of Communication Studies (formerly the School of Interpersonal Communication), the J. Warren McClure School of Communication Systems Management, the E. W. Scripps School of Journalism, the School of Telecommunications, and the School of Visual Communication.

The College was created to meet the communication needs of a changing society. New forms of communication, the growth of communication systems, and the need for better communication among people, races, economic groups, and nations were factors in Ohio University's decision to prepare graduates both for traditional roles and for a variety of new opportunities.

The College is equipped to train graduates for careers and post-baccalaureate study in journalism, telecommunications, voice and data communication, visual communication, and organizational and interpersonal communication. The College operates on the assumption that professional competency in these areas calls for the highest proficiency in the field of specialization, plus the broadest liberal education in other disciplines.

The School of Communication Studies offers a liberal education, emphasizing the scientific and artistic basis of communication. It is firmly committed to providing quality instruction in the theoretical bases of human communication and the application of theory in specific contexts. Students choose areas of concentration and specific courses that lead to professional and preprofessional competence in such fields as training and human resources, law, politics and government, health advocacy, campaign implementation, and survey research.

Students majoring in communication studies must choose one area of concentration from among health communication, organizational communication, or communication and public advocacy.

The J. Warren McClure School of Communication Systems Management is a unique program that educates students about the design, management, and uses of advanced communication technologies. The only program of its kind in Ohio, and one of very few in the nation, the school offers a four-year baccalaureate program leading to a degree in communication systems management. Coursework centers on the business applications of voice and data networks and services. The interdisciplinary approach, a highly successful paid internship program, and substantial hands-on laboratory experience prepare students for careers managing business communication networks, as well as with major telephone companies, consulting firms, and government agencies.

The E. W. Scripps School of Journalism is fully accredited, with undergraduate

sequences in advertising, broadcast news, news writing and editing, magazine journalism, public relations, and online journalism.

The journalism school is recognized nationally and by the Ohio Board of Regents for the quality of its more than 200 annual graduates who move into careers on leading newspapers, magazines, and news-gathering organizations, as well as into advertising and public relations positions. Careers and graduate study take them to all parts of the world.

The School of Telecommunications is one of the largest broadcasting and electronic media programs in the United States, and national surveys have ranked it as one of the best in the country. Like the School of Journalism, it has received Program Excellence awards from the Ohio Board of Regents in recognition of the quality of its instruction.

The telecommunications program provides a broad-based education that prepares students for a range of careers in the electronic media. Many opportunities are provided for hands-on experience on campus, including a campus radio station, a video production unit, and public broadcasting stations WOUB AM-FM-TV. A year-round internship program provides opportunities for qualified advanced students to obtain professional experience outside the University.

The School of Visual Communication prepares students for careers in informational graphics/publication design, interactive multimedia, photojournalism, and commercial photography. Students graduating from the program are qualified to pursue careers in newspapers, magazines,

corporate communications, web design, advertising photography, and new media production.

All programs of study at the undergraduate level lead to the bachelor's degree. More detailed descriptions and the requirements for the various majors offered in the schools are given in the pages immediately following.

Graduate programs in all five schools are described in detail in the *Graduate Catalog*.

Admission Requirements

Freshman admission to the Scripps College of Communication's J. Warren McClure School of Communication Systems Management, School of Communication Studies, E. W. Scripps School of Journalism, School of Telecommunications, and School of Visual Communication is based on high school grades, test scores, and professional activities, as well as availability of openings.

You may receive additional consideration if you have demonstrated talent or experience, or if you come from a disproportionately represented group. For information on admission procedures, contact the school director.

Transfer Policy

In general, all students currently enrolled at Ohio University who wish to transfer into the College must have earned at least 48 quarter hours (32 semester hours) with a g.p.a. of at least 2.5. However, some schools in the Scripps College of Communication have a higher g.p.a. standard. Students not enrolled at Ohio University must abide by policies in this catalog under the heading "Undergraduate Admissions: Transfer Applicant." Applicants may receive additional consideration if they have demonstrated talent or experience, or if they come from a disproportionately represented group.

The Schools of Communication System Management and Visual Communication follow the rolling transfer model, meaning students may apply to transfer at any time. However, University policy requires that processing the paperwork to change programs takes place only within the first 15 days of each quarter, regardless of the application date. The Schools of Communication Studies, Journalism, and Telecommunications have application deadlines (October 1 and March 1) and different rules for applying. See each school's section for details.

Students transferring into one of the schools within the Scripps College of Communication will be required to complete the major requirements in effect during the academic year of the approved transfer.

This regulation applies to:

Students transferring from other universities.

Students transferring from other colleges within Ohio University.

Students transferring from one school to another within the Scripps College of Communication.

Degrees and Requirements

The Scripps College of Communication offers curricula leading to the degrees of Bachelor of Science in Communication (interpersonal communication, telecommunications, communication systems management), Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication.

As a candidate for a degree in the Scripps College of Communication, you must satisfy the requirements established by the program in which you are enrolled. Additionally, you are required to meet the General Education Requirements that have been established by Ohio University. Most University general education courses can satisfy both program and University requirements. Consult your advisor on the dual application of those courses.

You must also have a minimum total of 192 earned hours with a 2.0 cumulative grade-point average (g.p.a.) and a 2.0 g.p.a. in your major. When courses are retaken, only the final hours and grades earned count toward graduation.

After transferring into the Scripps College of Communication, you must complete a minimum of 48 credit hours as a resident of the school conferring the degree. In certain cases, exceptions may be made by the academic dean in consultation with the director of the school you plan to enter.

Advising

When you enter a school in the Scripps College of Communication, you are assigned an academic advisor on the basis of your interests. Your faculty advisor assists in the preparation of a schedule each quarter so that you select the proper sequence of courses in the major and appropriately related courses. However, you are responsible for seeing

that all degree requirements are met (See also title page of this catalog).

Scholarships

Scholarships sponsored by each of the five schools within the Scripps College of Communication for qualified undergraduate students are available on an annual basis. For more information, contact the scholarship chair of each school, the assistant dean for undergraduate programs and services, or the College's Web site: <http://www.commcoll.ohiou.edu/>

Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

Global Leadership Center

The Global Leadership Center (GLC) is an innovative program that prepares students for leadership opportunities in a rapidly changing world. Open to all majors, the GLC brings together the resources of the colleges of Communication, Arts and Sciences, Engineering, and Business in an interdisciplinary 30 credit-hour program on global issues, with a strong emphasis on real-world projects and problem-solving skills. The program has several distinctive features:

Project-based learning. GLC courses are not traditional classes with lectures, tests, and papers. Instead, students work in project teams on real-world problems and issues. Project-based learning challenges students to determine what they need to know to solve the problem, how they are going to find the information they need, and how they are going to apply it. Project-based learning also changes the role of faculty members; rather than providing the students with specific course content, faculty advise, consult, and provide feedback on all aspects of a project—from research and analysis to report writing and presentations.

Learning community. The GLC is housed in Bromley Hall. Students enter the GLC in fall quarter of their sophomore or junior year. Sophomores may choose to spend their sophomore year in residence; residency is also an option for entering juniors and second year GLC students. Faculty join students for meals, cultural events, and other activities. The purpose of the

residential plan is to build a living and learning community that combines the professional and social spheres and fosters teamwork; in such a community, students working in teams on projects should come to regard each other as colleagues with a shared mission.

International experiences. Each GLC student completes at least two international and cross-cultural projects. First year GLC students undertake consulting projects, working in bi-national teams with students from an overseas university (the GLC has worked in Hungary, Ecuador, the Czech Republic, Thailand, and Mexico). After the first year, students do an internship overseas or complete a second study abroad program.

Students apply for admission in their freshman or sophomore year. All standard financial aid programs apply.

Plan of study. The program consists of eight projects and an international internship or second study abroad program, taken over two years in the following sequence:

Sophomore Year

Fall	GLC 201, 202	(8 hours)
Winter	GLC 203, 204	(8 hours)
Spring	GLC 205	(2 hours)

Junior Year

Fall	GLC 301	(4 hours)
Winter	GLC 302	(4 hours)
Spring	GLC 303	(4 hours)

The internship (GLC 400, 0-6 hours) may be taken at any time after the first year in the GLC program. GLC courses count toward specialization or distribution requirements for most majors.

Other requirements. Students are required to demonstrate competency in a modern language to the 213 level (or equivalent) or complete an advanced sign language course by the time they graduate.

For more information, call 740.597.2794, visit our Web site at <http://www.ohio.edu/glc/> or reach us by e-mail at glc@ohio.edu.

Political Communication Certificate Program

The colleges of Communication and Arts and Sciences jointly sponsor a certificate in political communication for students who wish to supplement their undergraduate majors with an inquiry into the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their efforts to persuade and influence political outcomes. The program is open to any undergraduate student in the University.

To receive a certificate in political communication, you must complete POCO 201 Introduction to Political Communication and POCO 401 Seminar in Political Communication, as well as 22 quarter hours from the courses listed below. No more than two courses from any one department can be counted toward the certificate. Many course options listed under "Courses in the Curriculum" have lower-level prerequisites that can not be waived.

A Political Communication Certificate is awarded upon completion of the requirements and graduation from the University. Notation of the award is recorded on your transcript. Consult the director of the Political Communication Program before the deadline for graduation to ensure that the certificate will be awarded.

Required Courses

POCO 201	Intro to Political Comm.	3
POCO 401	Seminar in Political Comm.	5

Courses in the Curriculum

ECON 430	Public Finance	4
COMS 260	Intro to Communication in Public Advocacy	4
COMS 300	Field Research Methods in Communication	4
COMS 342	Comm. and Persuasion	4
COMS 352	Political Rhetoric	4
COMS 430	Comm. and the Campaign	5
COMS 442	Responsibilities and Freedom of Speech	4
JOUR 233	Information Gathering	3
JOUR 370	Media Relations and Publicity	4
JOUR 464	Public Affairs Reporting	3
JOUR 471	Public Relations Principles	5
JOUR 472	Advanced Public Relations	4
LING 280	Language in America	5
PHIL 240	Social and Political Philosophy	4
POLS 250	International Relations	5
POLS 304	State Politics	4
POLS 406	Elections and Campaigns	4
POLS 410	Public Policy Analysis	4
POLS 415	The American Presidency	4
POLS 416	Legislative Processes	5
POLS 420	Women, Law, and Politics	4
POLS 490H	Women and Politics	4
PSY 304	Human Learning and Cognitive Processes	4
PSY 336	Social Psychology	4
SOC 210	Intro to Social Psychology	4
SOC 351	Elementary Research Techniques	4
SOC 414	Contemporary Social Movements	4
SOC 465	Social Change	4
TCOM 453	Law and Regulation	5
TCOM 475	Politics and the Electronic Media	4

School of Communication Studies

(formerly School of Interpersonal Communication)

Claudia L. Hale, Director

Anita C. James, Associate Director for Undergraduate Studies

James W. Dearing, Associate Director for Graduate Studies

The School of Communication Studies (COMS) offers a liberal education, emphasizing the scientific and artistic basis of communication. The School is firmly committed to providing quality instruction in the theoretical bases of human communication and the application of theory in specific contexts. The core courses combine theory and practice as students learn the historical and conceptual foundations of the field of communication. At the same time, the curriculum equips students with skills in speaking, writing, critical thinking, discussion, and problem solving. Students complete a rigorous academic program consisting of courses in theory, research methods, presentations, and engaged learning practica. Elective courses in the school

complement the required courses and expand the students' repertoire of competencies and skills. Enhancing the core and major courses are courses in a related area or minor, study of other cultures, and contemporary technology. Students' choices lead to professional and preprofessional competence in such fields as training and human resources, law, politics and government, health advocacy, campaign implementation, and survey research. All told, the major is designed to augment students' lives and careers through a clearer understanding of the effects of communication and messages in their professional and personal lives.

The COMS Web site (<http://www.coms.ohiou.edu/>) should be consulted for the most current information.

Special Opportunities

Internship Program

For students to apply the theory of the classroom to the practical world of the workplace, the School of Communication Studies supports a carefully supervised internship program. During the academic year, majors serve as student interns in a wide variety of occupational settings. Many of these internships are identified and developed by the students. The period of an internship is usually 10 weeks, and 1 to 15 credits may be earned. To qualify for an internship, a student must be a major in Communication Studies and satisfy a series of school requirements; as a result, internships for academic credit are usually scheduled during the junior or senior year. For more information regarding this program, contact the school's internship coordinator.

Forensics Program

Through its forensics program, the School of Communication Studies provides the opportunity for all University students to meet outstanding undergraduates from 300 or more colleges or universities in intellectual competition. Approximately 20 tournaments at other schools and several held on campus enable a student to develop skills in debate, extemporaneous speaking, oratory, rhetorical criticism, and oral interpretation. Excellence in scholarship and superior performance in speech communication are rewarded in several ways. Delta Sigma Rho-Tau Kappa Alpha national honorary is open to students in the upper third of their class who excel in forensics. A student need not be a Communication Studies major to participate in the forensics program. For more information regarding Ohio University forensics, contact Dan West, the John A. Cassese Director of Forensics, at his e-mail address: westd1@ohio.edu.

Preparation for Law School

The Association of American Law Schools states that the goals of prelegal education are: (1) comprehension and expression in words, (2) critical understanding of the human institutions and values with which the law deals, and (3) creative powers in thinking. Students in the School of Communication Studies who plan to enter law or paralegal school will find excellent opportunities for meeting these goals. In addition, all Ohio law schools require an undergraduate degree from an approved institution before admission.

A prelaw student in Communication Studies will be individually counseled and advised in developing a total course of study to meet the intellectual challenges of the legal profession. Suggested areas of study include communication theory and practice, argumentation, legal oratory and communication, English composition and literature, history, political science, business law, behavioral sciences, humanities, comparative arts, economics, and philosophy.

Prelaw students are encouraged to investigate the Communication and Public Advocacy concentration of the Communication Studies major.

Transferring into the School of Communication Studies

Students interested in applying to COMS are encouraged to make an appointment to meet with Dr. Anita James, Associate Director of Undergraduate Studies. Appointments are scheduled by contacting Brenda Nelson in Lasher 024, by telephone at 740.593.4842, or by e-mail at nelsonb1@ohio.edu during business hours.

The School of Communication Studies permits internal applications as follows:

- students in their first year at Ohio University, with fewer than 48 hours, should apply by March 1 for transfer the following Fall (September);
- students who have completed more than 48 hours should apply by October 1 for transfer the following Winter (January) or March 1 for transfer the following Spring (April);
- students must have a minimum cumulative g.p.a. of 2.75 for consideration; applying with the minimum does not guarantee acceptance;
- students must apply online using the form available two weeks prior to the deadline at the School Web site, <http://www.coms.ohio.edu/>
- transfers from outside Ohio University must abide by the policies spelled out in the "Undergraduate Admissions" page at the beginning of this catalog.

University policy requires the processing of the paperwork to change programs only **within the first two weeks of each quarter**, regardless of the application date.

Degree Requirements

Major code BC5363

In addition to the General Education requirements and the 192 total hours specified by the University, all majors in the School of Communication Studies must complete (1) seven core courses, (2) three theory courses, two in one of the areas of emphasis, (3) one course in research methods, (4) one concentration-specific internship or practicum, (5) one course in advanced presentations, (6) three elective courses in the school, (7) a minimum of 28 hours in a related area approved by a faculty advisor, (8) three consecutive quarters of another language, study abroad (including predeparture preparation), or three courses emphasizing cultural studies, and (9) two courses in contemporary technology. Only one approved course in the major can be applied toward the University's Tier II requirements.

Core Courses

All majors in the School of Communication Studies must complete a 28-hour sequence of seven courses comprising a common core of knowledge. This requirement provides all majors with a foundation upon which more advanced courses are built. A grade of C or better is required in each course in the core. The seven core courses are:

COMS 103	Public Speaking	4
COMS 110	Communication Between Cultures	4
COMS 205	Techniques of Group Discussion	4

COMS 206	Communication in Interpersonal Relationships	4
COMS 215	Argumentative Analysis and Advocacy	4
COMS 235	Introduction to Communication Theory	4
COMS 450	Capstone Seminar in Communication	4

Summary

Core courses	28
Area of emphasis courses	36
Related Area courses	28
Foreign language/culture courses	12
Technology courses	8
total	112 hours

Concentrations in the Major

The major in Communication Studies provides students with the best features of a liberal arts and a professional education. The core courses, in combination with the University's General Education requirements, provide students with opportunities to develop competencies through examining the role played by communication in various contexts. The concentration is the means through which students develop a specialization, while exploring the spectrum of human communication. The concentration provides a focus to the major but are not intended to be career specific. Each area provides skills and competencies applicable to a variety of potential careers under the broader headings of health communication, organizational communication, and communication and public advocacy. Majors are expected to complete the requirements of at least one of the following three concentrations.

Health Communication

Health communication professionals, and the organizations in which they work, are concerned with meeting people's communication and knowledge needs in such areas as the relationships between patients and their health care providers, family dynamics, dissemination of health information, cultural and gender influences on communication, and health-focused public campaigns. Recent graduates are employed in large health care companies, national nonprofit health agencies, and research institutions.

1. Theory Courses (3 courses; 1 course must be COMS 245 or 260)

COMS 240	Health Communication	4
COMS 310	Information Diffusion	4

2. Research Methods Course (1 course)

COMS 300	Field Research Methods in Communication	4
COMS 301	Empirical Research Applications in Communication	4
COMS 303	Rhetorical Analysis and Criticism	4

3. Internship or Practicum (1 course)

COMS 430	Communication and the Campaign	4
COMS 445	Senior Practicum	4
COMS 496A	Health Communication Internship	4

4. Advanced Presentations Course (1 course)

COMS 315	Advanced Argument and Debate	4
COMS 403	Advanced Presentations	4
COMS 421	Instructional Training and Development in Communication	4

5. Elective Courses (3 courses)

COMS 217	Advanced Forensics	4
COMS 220	Oral Interpretation of Literature	4
COMS 245	Introduction to Organizational Communication	4
COMS 260	Introduction to Communication in Public Advocacy	4

COMS 304	Principles and Techniques of Interviewing	4
COMS 306	Interpersonal Conflict Management	4
COMS 342	Communication and Persuasion	4
COMS 351	Courtroom Rhetoric	4
COMS 353	Contemporary Culture and Rhetoric	4
COMS 405	Meeting and Conference Planning	4
COMS 406	Advanced Interpersonal Communication	4
COMS 410	Cross-Cultural Communication	4
COMS 411	Communicating with People with Disabilities	4
COMS 420	Gender and Communication	4
COMS 422	Communication in the Family	4
COMS 442	Responsibility and Freedom of Speech in Communication	4
COMS 448	Rhetoric and Electronic Media	4
COMS 480	Topics in Communication	4
COMS 498	Independent Study	1-4

Organizational Communication

Students focused on organizational communication are preparing for careers in business, education, government, industry, or the nonprofit sector. The skills and competencies acquired through this concentration enable students to understand the dynamics of, and function more effectively in, organizational structures. Recent graduates are employed in consulting firms, national financial service providers, conference planning companies, and information management organizations.

1. Theory Courses (3 courses; 1 course must be COMS 240, 310, or 260)

COMS 245	Introduction to Organizational Communication	4
COMS 345	Advanced Organizational Communication	4

2. Research Methods Courses (1 course)

COMS 300	Field Research Methods in Communication	4
COMS 301	Empirical Research Applications in Communication	4
COMS 303	Rhetorical Analysis and Criticism	4

3. Internship or Practicum (1 course)

COMS 430	Communication and the Campaign	4
COMS 445	Senior Practicum	4
COMS 496B	Organizational Communication Internship	4

4. Advanced Presentations Course (1 course)

COMS 315	Advanced Argument and Debate	4
COMS 403	Advanced Presentations	4
COMS 421	Instructional Training and Development in Communication	4

5. Elective Courses (3 courses)

COMS 217	Advanced Forensics	4
COMS 220	Oral Interpretation of Literature	4
COMS 240	Introduction to Health Communication	4
COMS 260	Introduction to Communication in Public Advocacy	4
COMS 304	Principles and Techniques of Interviewing	4
COMS 306	Interpersonal Conflict Management	4
COMS 342	Communication and Persuasion	4
COMS 351	Courtroom Rhetoric	4
COMS 353	Contemporary Culture and Rhetoric	4
COMS 405	Meeting and Conference Planning	4

COMS 406	Advanced Interpersonal Communication	4
COMS 410	Cross-Cultural Communication	4
COMS 411	Communicating with People with Disabilities	4
COMS 420	Gender and Communication	4
COMS 422	Communication in the Family	4
COMS 442	Responsibility and Freedom of Speech in Communication	4
COMS 448	Rhetoric and Electronic Media	4
COMS 480	Topics in Communication	4
COMS 498	Independent Study	1-4

Communication and Public Advocacy

Students emphasizing this area experience an integration of political and legal communication theory and practice. The courses emphasize the role of communication in argument, debate, and politics, including the ethical and rhetorical implications of constitutional guarantees of political, social, and religious speech and persuasive strategies characteristic of contemporary political communication. Recent graduates are attending law school, working in state legislative roles, and managing political campaigns.

1. Theory Courses (3 courses; 1 course must be COMS 240, 310, or 245)

COMS 260	Introduction to Communication in Public Advocacy	4
COMS 352	Political Rhetoric	4

2. Research Methods Courses (1 course)

COMS 300	Field Research Methods in Communication	4
COMS 301	Empirical Research Applications in Communication	4
COMS 303	Rhetorical Analysis and Criticism	4

3. Internship or Practicum (1 course)

COMS 430	Communication and the Campaign	4
COMS 445	Senior Practicum	4
COMS 496C	Communication and Public Advocacy Internship	4

4. Advanced Presentations Course (1 course)

COMS 315	Advanced Argument and Debate	4
COMS 403	Advanced Presentations	4
COMS 421	Instructional Training and Development in Communication	4

5. Elective Courses (3 courses)

COMS 217	Advanced Forensics	4
COMS 220	Oral Interpretation of Literature	4
COMS 240	Introduction to Health Communication	4
COMS 245	Introduction to Organizational Communication	4
COMS 304	Principles and Techniques of Interviewing	4
COMS 306	Interpersonal Conflict Management	4
COMS 342	Communication and Persuasion	4
COMS 351	Courtroom Rhetoric	4
COMS 353	Contemporary Culture and Rhetoric	4
COMS 405	Meeting and Conference Planning	4
COMS 406	Advanced Interpersonal Communication	4
COMS 410	Cross-Cultural Communication	4
COMS 411	Communicating with People with Disabilities	4
COMS 420	Gender and Communication	4
COMS 422	Communication in the Family	4
COMS 442	Responsibility and Freedom of Speech in Communication	4
COMS 448	Rhetoric and Electronic Media	4
COMS 480	Topics in Communication	4
COMS 498	Independent Study	1-4

Related Area Requirement

In addition to the core courses and requirements in the concentration, all majors must complete a minimum of 28 hours in a related area. The related area is intended to complement and supplement the work in the major to increase the marketability of the student. Related areas should be selected early and must be approved by the student's faculty advisor. Each student must submit a Declaration of Related Area to the Scripps College of Communication office. The form is obtained from the student's faculty advisor and must be signed by the advisor.

The courses comprising the related area can come from one department or school or from several, but all must be outside the School of Communication Studies. Collectively, the related area course work should constitute a unified body of knowledge having a definite relationship with the concentration. At least 16 of the hours should be courses at the 300- and 400- level.

Language and Culture Requirement

All COMS majors are required to complete 12 credit hours of study of a language or culture other than their native language/culture. Students may meet this requirement by completing: (1) three consecutive courses in the same language; (2) a study abroad experience, including the pre-departure training; or (3) three courses emphasizing cultural topics. Students should discuss their interests and intentions with their advisor to ensure all course requirements are being met.

- Students meeting this requirement by completing three consecutive quarters of another language may begin with the first course, e.g., SPAN 111. Other majors may not "count" a first year of language study, but COMS will accept it.
- To learn more about the study abroad programs offered to Ohio University students, go to the Education Abroad Web site at: <http://www.ohio.edu/studyabroad/>, send an e-mail to education.abroad@ohio.edu, telephone 740.593.4583, or walk-in to Gordy Hall room 107.
- A variety of courses will meet the requirement of focusing on cultural topics, but a good place to begin is to explore the courses listed for Tier II, Area 5, Cultural Perspectives. Courses taken to meet Tier II requirements cannot meet this option.

Technology Requirement

All COMS students are required to complete two courses in technology. The list of acceptable courses is available from advisors in the school and on the School Web site.

Minor in Communication Studies

Minor code ORCOMS

The minor in Communication Studies is available to students in all disciplines. A student declaring the minor will not be permitted to substitute courses for those listed below and, if non-listed COMS courses are taken, will not be permitted to register for credits beyond 28 hours, even if that means the minor cannot be completed.

Required Courses (8 hours):

101, 103

Elective Courses (20 hours):

217, 220, 240, 245, 260, 304, 306, 310, 320, 342, 345, 351, 352, 353, 405, 410, 411, 420, 422, 442, 448, 480

J. Warren McClure

School of Communication

Systems Management

Andrew Snow, Director

Philip Campbell, Associate Director for Undergraduate Studies

Bachelor of Science In Communication (BSC) Communication Systems Management

Major code BC5329

Founded in the fall of 1980 as the Center for Communication Management, this program was the first of its type in Ohio and only the second in the United States at the baccalaureate level. It is a multidisciplinary major, with students taking courses in nine other schools and departments in addition to the J. Warren McClure School of Communication Systems Management. The program was designed with the assistance of the International Communications Association and other telecommunications professionals.

Purposes and Objectives

The purpose of the J. Warren McClure School of Communication Systems Management is to provide academic studies and research for the training of professionals in the field of voice/data telecommunications. These communication professionals fill a large number of roles: they design, supervise, and operate specialized communication systems for private industry and government; they design and market communication services on behalf of major telephone companies, Internet service providers, cellular providers, and equipment vendors; and they apply their expertise on behalf of consulting firms and regulatory agencies.

Until the 1970s, professionals in the field were trained primarily on the job. But with the rapid expansion of technology and its applications, universities were asked to provide quality educational programs in this field. The Ohio University program is the result of five years of consultation and planning with experts at both the academic and applied levels.

The program is based on the philosophy that the communication professional must have broad basic knowledge and skill in such diverse areas as technology, business, computer systems, and written and oral communication.

While working toward their degrees, students are encouraged to gain practical experience through lab exercises, case studies, internships, and practica. Students are given opportunities to observe and use communication systems (voice, image, and data) in the school's laboratories and through tours of the University's Communication Network Services installation and other facilities.

Transfer Policy

Current Ohio University Students

Current Ohio University students who wish to transfer into the school must have a cumulative g.p.a. of at least 2.5 for all collegiate work attempted at Ohio University. Should space become a problem, other transfer procedures may be adopted.

You are required to meet with the school's Director or Associate Director before applying for transfer. In order to

apply for transfer, you must complete a Transfer Information Sheet (available in the school's office) and supply your latest DARS report. You may apply for transfer at any time.

Transfer Students from Other Universities

Transfer students from other universities who are admitted to Ohio University may elect CSM as their major as part of the university admissions process. In this case, there is no need to meet with the Director or fill out the Transfer Information Sheet prior to transfer into the school.

Internships and Practica

Hands-on experience is an important part of your course of study, and you are strongly encouraged to fulfill this component of your studies through an internship or practicum. Course credit for either an internship or a practicum applies toward the 45 hours of COMT courses required of all majors. Credit toward the 45 hours is not awarded for both an internship and a practicum.

The school has a strong internship program with more than 30 sponsoring organizations. Internships are usually 12 weeks long and take place off campus during the summer; other arrangements are possible. You are treated as a staff member and are paid for your efforts. Internships are awarded on a competitive basis and are subject to availability. You must be majoring in the program, have completed at least 90 hours, including specified courses in the program (see the Director for a list), and have one quarter remaining on campus after the internship is completed. Individual internship sponsors establish g.p.a. requirements. You must enroll in the University for academic credit during the internship and may earn up to 12 hours of course credit for completion of all internship requirements; a maximum of 5 hours of course credit will apply to the 45-hour major requirement. Apply to the internship coordinator for consideration.

The school also provides practicum experience. You may choose to complete a practicum project under the supervision of a school faculty member. Practica are conducted on campus, either within the school or for other units, and are unpaid. You must enroll in the University for academic credit during the quarter in which the practicum is conducted. A maximum of 5 hours of course credit will apply to the 45-hour major requirement. Practica are arranged with individual faculty members.

If you are unable to complete either an internship or a practicum, you may complete the 45-hour major requirement through an additional COMT elective course.

Curricula and Requirements

A communication professional is asked to have reasonable familiarity with a number of concerns, both general and technical. The communication management major requires a multidisciplinary approach involving courses in other participating schools and departments, in addition to coursework offered by the school itself.

All majors in the program must earn a grade of C (2.0) or better in COMT 214, COMT 220, COMT 222, and COMT 302. If you earn a grade below C in any of these courses, you will not be permitted to enroll in upper-division COMT courses. Courses may be retaken according to University policy.

Additionally, to remain active in the major, you must maintain a 2.0 average in all required courses, not solely those labeled as communication management courses.

You are required to complete a secondary area of concentration. Common areas of concentration have included business management, marketing, management information systems,

political science, computer science, and communication studies. Other areas are possible as well. You develop your specific secondary area of concentration with your advisor's approval after completing COMT 214. Further information is available from the school office.

Each major must complete the core courses, focus area requirements, and other University requirements.

Requirements are structured to meet simultaneously the University's General Education Requirements and the needs of the major field.

Core Courses

1. General

ECON 103, 104	Principles	8
	Freshman Tier I English	5
	Tier I mathematics	4-5
	Statistics	4-5
	Other Tier requirements	

2. Technical and Business

ACCT 101, 102	Accounting	8
BUSL 255	Law and Society	4
CS 120	Comp. Literacy	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
	One computer language	5

3. General Communication

COMS 101, 103, 215		12
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4. Communication Systems Management

COMT 214, 220, 222, 302, 304, 310, 312, 444, and 14 hours of additional COMT courses (including up to 5 hours of COMT 401 or 495 but excluding COMT 101, 201, 431, and 493) 45

5 Secondary area of concentration 20-25

Specific courses dependent upon area of concentration

6 Electives

As recommended by advisor

E. W. Scripps School of Journalism

Thomas Hodson, Director

Jan Slater, Associate Director

Joe Bernt, Director of Graduate Studies

Bachelor of Science in Journalism

Ohio University's E. W. Scripps School of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communication. It is one of a limited number of accredited schools and departments of journalism in the United States.

Mission Statement

The E. W. Scripps School of Journalism is dedicated to the needs of its students; to excellence in teaching, advising, service, and research; and to leadership in journalism education. The school stresses the need for a liberal arts foundation combined with a professional education and practical experience for its students. The goals are to search for truth; to develop critical analysis, thinking, writing, and speaking abilities; to enhance free, responsible, and effective expression of ideas.

To that end, the E. W. Scripps School of Journalism:

- stresses the importance of the First Amendment;
- fosters the highest standards of journalism ethics;
- prepares students to enter the journalism professions;
- provides a liaison between students and professionals;
- involves students and faculty in an extended University;
- values an international presence and perspective;
- attracts, nurtures, and retains a diverse group of outstanding students;
- expands scholarly activity to enhance the body of knowledge within journalism;
- supports a diverse faculty offering an array of contributions;
- offers an environment that equips students to live in a diverse world; and
- upholds the University mission of commitment to educational excellence through focus on the individual student.

The School

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be educated culturally and trained professionally. Blending the liberal arts with professional courses, Ohio University journalism students take approximately three-fourths of their courses outside the professional school.

Six sequences are offered, all leading to the Bachelor of Science in Journalism degree: advertising, broadcast news, magazine, news writing and editing, public relations, and online journalism.

While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in being news writers, reporters, and anchors should enroll in the E. W. Scripps School of Journalism, and students interested in studio and field production should enroll in the School of Telecommunications.

The school's **Institute for International Journalism** prepares students to work as international journalists, supports research on topics related to international journalism, enhances communication among journalists, students and media scholars, and cooperates with global partners in journalism education. With scholarship funding provided through endowed scholarships, more than 200 Ohio University journalism majors have completed John R. Wilhelm foreign correspondence internships in about 30 countries since the program began in 1970.

In cooperation with The Sales Centre in the College of Business, the School of Journalism provides students the opportunity to earn a certificate in media sales. This is a professional development program that uses advertising course work from the School of Journalism and marketing courses through The Sales Centre in the College of Business. Admission to the program is competitive and applications can be obtained from the Sales Centre, Copeland 609.

Media Practice

A basic philosophy of the E. W. Scripps School of Journalism is that students should get media experience while working toward their degrees. Experience is available on a laboratory magazine, *Southeast Ohio*; on a community Web site, *Athensi.com*; and on a daily laboratory news broadcast, *Athens MidDay*. Information gathering, graphics, and advertising laboratories also offer practical experience.

Many students add to their experience by writing for and editing *The Post*, the independent daily campus newspaper; the *Athena*, the University yearbook; or *The Ohio Journalist*, the school's alumni publication. Some also serve on the staffs of local newspapers. Work might include gathering and writing news and features; editing local and wire copy; writing headlines; and preparing layouts.

In broadcast news, students can get practical experience preparing and broadcasting news over WOUB AM, FM, and TV, the University's radio and television stations, and over the local cable television system.

Online journalism opportunities are available for students through virtually any department or agency on campus or in the community, since most have active Web sites.

Advertising and public relations students gain practical experience through internships with agencies, corporations, hospitals, charitable groups, newspapers, magazines, and broadcast stations.

With increased media use of computers and the Internet, many employers are seeking graduates who can write and design materials for the World Wide Web. The E.W. Scripps School of Journalism provides opportunities and courses to help students develop the skills necessary for Internet-based journalism careers.

Internship Program

Consistent with its policy of combining classwork with practical training, the E. W. Scripps School of Journalism requires each student to complete an advisor-approved internship. Interns are provided with varied hands-on experiences in media-related organizations. Internship opportunities are located throughout the nation and abroad.

Admission Requirements

The E. W. Scripps School of Journalism admits only the best academically and professionally qualified freshmen who rank in the top 15 percent of their high school class and meet minimum standardized test score requirements (25 ACT / 1140 SAT). Students demonstrating notable talent or experience and members of disproportionately represented groups will be given special consideration. The school has an early admission deadline of December 15.

Transfer Students

The following policy has been established by the E. W. Scripps School of Journalism as a means of selecting the best qualified students for the program. The academic quality of the curriculum depends in part on maintaining enrollment at a number that may be effectively served by our faculty. The school is dedicated to top-quality instruction, and this policy is one means through which that goal is achieved. This transfer policy applies to students from other universities as well as students in other units on campus.

- 1 Approximately 40 transfer students will be accepted annually into the E. W. Scripps School of Journalism.
- 2 Transfer students from within or outside Ohio University will be considered only when they have completed at least 48 quarter hours (32 semester hours) with a minimum 3.0 g.p.a.
- 3 In addition to grades, consideration will be given to journalism grades, journalism experience or background in a program offered by the school (professional or college), test scores, letters of recommendation, personal statements of intent, and work samples.
- 4 You must apply for transfer using the school's Application for Transfer form which is available on the school's Web site <http://scrippsjschool.org/>

- 5 Official transcripts, letters, and other supporting documents must be attached to the Application for Transfer at the time of its submission.
- 6 Transfer applications are accepted twice during the academic year – no later than October 1 for transfer in Winter quarter and March 1 for transfer in Fall quarter. Application for transfer can be made only once per academic year. Applications must be received by the above dates. Late applications will not be considered.
- 7 A special faculty committee will conduct evaluations and recommendations. The school's Director and Associate Director will make final decisions.

Curricula and Requirements

The Accrediting Council on Education in Journalism and Mass Communication includes among its accrediting standards the following provision: three-fourths of the student's program should consist of courses in the liberal arts and sciences and one-fourth in professional courses in journalism.

Journalism students at Ohio University meet the above provision by fulfilling two sets of requirements: general, which are followed by all students, and specialized, which are chosen by the student with the guidance of an advisor.

General Requirements

Political Science (2 qtrs)

Sociology and/or Anthropology (2 qtrs)

Economics (2 qtrs)

Psychology (1 qtr) (except PSY 120)

History (2 qtrs)

English (2 qtrs)

Statistics (1 qtr) (from approved school list)

Philosophy (2 qtrs) (one must be PHIL 120 or 320)

Foreign Language (3 qtrs basic sequence or 1 qtr advanced) or Natural Science (3 qtrs as approved by advisor)

Comparative Arts/Fine Arts (nonperformance courses) (2 qtrs) or African American and/or Women's Studies (2 qtrs)

Speech (1 qtr) COMS 103

Specialization Area

The specialization area must be approved by an advisor. Students may choose one of four options:

- 1 A minimum of 36 hours in a single department within the College of Arts and Sciences (usually structured in accordance with the major requirements of the selected department).
- 2 A minimum of 18 approved hours in each of two departments in Arts and Sciences.
- 3 A minimum of 18 approved hours in one Arts and Sciences department and 18 advisor-approved hours in any other series of related courses.
- 4 A minimum of 20 approved hours in one Arts and Sciences department and 16 advisor-approved hours in any other series of related courses.

Any courses defined as professional cannot be used as specialization courses.

Additional non-journalism courses are required in some sequences. No course may be counted in more than one type of requirement. For example, a course used to meet a general requirement may not be applied to a sequence or specialization area requirement as well.

Hours Requirement

To assure the liberal emphasis of the overall program, the nonprofessional content of the B.S.J. must be a minimum

of 128 quarter hours of the 192 required for the degree. Minimum professional hours required is 45 quarter hours. Professional hours are defined as credits in journalism, visual communication, telecommunications, or photography. Non-journalism courses required in sequences may be counted as nonprofessional hours.

Standards.

- 1 To remain active in the B.S.J. program, you must earn at least a C in all core courses.
- 2 No course may be retaken more than twice.

Journalism Sequences

All journalism majors complete a basic 26-hour core of six courses. A grade of C or better is required in all core courses.

JOUR 101	Journalism and Society	4
JOUR 133 or 133A	Precision Language	4
JOUR 221	Graphics	5
JOUR 231 or 231A	News Writing	4
JOUR 233	Information Gathering	3
JOUR 411	Communication Law	3
JOUR 412	Ethics, Mass Media & Soc.	3

Additional requirements for the various sequences are as follows:

Advertising Management

Major code BJ6932

JOUR 250	Advertising Principles	4
JOUR 340	Advertising Strategies	4
JOUR 375	Advert. Media Planning and Buying	4
JOUR 450	Advert. Copy Writing	3
JOUR 482	Advertising Management	4
JOUR 486	Advertising Campaigns	5
MKT 202	Marketing Principles	4

Advisor-approved internship.

Recommended electives:

JOUR 321	Print Advertising and Layout	4
JOUR 476	Advertising Research	4
JOUR 475	Advanced Media Planning and Buying	4
JOUR 477	Promotional Media	4

Broadcast News

Major code BJ6936

JOUR 350	Radio Broadcast News	4
JOUR 352	TV Broadcast News	4
JOUR 452	Broadcast News Producing	4
JOUR 455	Seminar in Broadcast News	3
JOUR 458	TV News Practice	4
JOUR 459	Advanced TV News Practice	3
JOUR 464	Reporting Public Affairs	3

Advisor-approved internship.

Magazine Journalism

Major code BJ6933

JOUR 430	Mag. Editing and Prod.	4
JOUR 431	Mag. Practice	3
JOUR 441	Mag. Feature Writing	4

Select four advisor-approved electives; additional electives as desired. Recommended electives are:

JOUR 311	History of Journalism	4
JOUR 314	Online J. Fundamentals	4
JOUR 331	Reporting Contemporary Issues	3
JOUR 333	News Editing	4
JOUR 363	Review and Criticism	3

JOUR 407	Electronic Publishing	4
JOUR 418	Web Editing	3
JOUR 432	Specialized Bus. Mags.	4
JOUR 435	Advanced Editing	3
JOUR 442	Adv. Feature Writing	3
JOUR 464	Reporting Public Affairs	3
JOUR 466	International Mass Media	4
JOUR 467	Foreign Correspondence	4
JOUR 468	Column Writing	3
JOUR 479	Computer Assisted Reptg.	3

Journalism electives to make 45 or more hours.

News Writing and Editing

Major code BJ6934

JOUR 311	Hist. of Am. Journalism	4
JOUR 331	Reporting Contemp. Issues	3
JOUR 333	News Editing	4
JOUR 464	Reporting Public Affairs	3

Advisor-approved internship.

Select two of the following:

JOUR 350	Radio Broadcast News	4
JOUR 363	Review and Criticism	3
JOUR 441J	Mag. Feature Writing	4
JOUR 442	Adv. Mag. Feature Writing	3
JOUR 465	Editorial Page	3
JOUR 467	Foreign Correspondence	4
JOUR 468	Column Writing	3
JOUR 470	Sportswriting	3

Journalism electives to make 45 or more hours

Online Journalism

Major code BJ6909

JOUR 314	Online J. Fundamentals	4
JOUR 333	News Editing	4
JOUR 415	Online J. Practice	3
JOUR 416	Online J. Seminar	3

Advisor-approved internship

Select one of the following:

JOUR 418	Web Editing	3
JOUR 419	Online Legal Issues	3
JOUR 479	Computer Assisted Rptg.	3
VICO 361	Intro Web Design	4

Select two advisor-approved electives; additional electives as desired. Recommended electives are:

JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
JOUR 331	Reporting Contemp. Issues	3
JOUR 350	Radio Broadcast News	4
JOUR 407	Electronic Publishing	4
JOUR 430	Mag. Editing and Prod.	4
JOUR 435	Advanced Editing	3
JOUR 464	Reporting Public Affairs	3
JOUR 466	International Media	4
VICO 462	Adv. Web Design	4

Public Relations

Major code BJ6935

JOUR 270	Intro to Public Relations	3
JOUR 333	News Editing	4
JOUR 370	Media Relations and Publicity	4
JOUR 471	PR Principles	4
JOUR 472	Advanced PR	4

Advisor-approved internship

Select three advisor-approved electives; additional electives as desired. Recommended electives are:

JOUR 250	Advertising Principles	4
JOUR 314	Online J. Fundamentals	4
JOUR 321	Advertising Layout	4
JOUR 331	Reporting Contemp. Issues	3
JOUR 350	Radio Broadcast News	4
JOUR 407	Electronic Publishing	4
JOUR 418	Web Editing	3
JOUR 430	Mag. Editing and Prod.	4
JOUR 432	Specialized Bus. Mags.	4
JOUR 435	Advanced Editing	3
JOUR 441	Mag. Feature Writing	4
JOUR 442	Adv. Feature Writing	3
JOUR 464	Reporting Public Affairs	3
JOUR 470	Sportswriting	3

Carr Van Anda Program Major code BJ6910

If you are a junior with a 3.0 cumulative g.p.a. in all work, you may elect a sequence making up your own program in journalism: the basic core of six courses plus your choice of journalism courses to equal 45 or more hours. The program must have the approval of your advisor and the director of the E. W. Scripps School of Journalism. Formal application is necessary.

School of Telecommunications

Roger Cooper, Director

Mia Consalvo, Associate Director for Graduate Studies

**Jeff Redefer, Associate Director for
Undergraduate Studies**

The School of Telecommunications offers programs of study leading to bachelor's, master's, and doctoral degrees. The baccalaureate program is designed to prepare students for careers in the media industries. While pursuing a telecommunications degree, students are also actively involved in the liberal arts curriculum found at Ohio University. Coursework in the Arts, Humanities, Social Sciences, Technology, and Communication Sciences are all part of this liberal arts foundation that is critical to the success of today's media professionals. While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in studio and field production should enroll in the School of Telecommunications, and those interested in news writing, reporting, and anchoring should enroll in the E. W. Scripps School of Journalism. The school also offers an Honors Tutorial Program to qualified students. (See the Honors Tutorial College section.)

The classroom and laboratory experiences of students are augmented by a variety of practical experiences, including work with the school's production unit—Athens Video Works, the All-Campus Radio Network, Brick City Records, and the three University owned and operated stations: WOUB-AM, WOUB-FM, and WOUB-TV. Credit for such experiences is available.

The school maintains relationships with various professional organizations including SIGGRAPH, the Ohio Association of Broadcasters, International Game Developers' Association,

the International Radio-Television Society, the National Association of Television Program Executives, the Society of Professional Audio Recording Services (SPARS), the Audio Engineering Society, the National Academy of Recording Arts and Sciences, the National Association of Broadcasters, and the Society of Motion Picture and Television Engineers (SMPTE).

Ohio University's Zanesville and Southern Campuses offer an associate's degree program in electronic media, including a sequence in broadcast engineering. This program offers a smaller, more intimate setting for the first two years of University coursework. For additional information, see "Electronic Media" in the Regional Higher Education section.

Transfer Policy

Because the School of Telecommunications sets high academic standards and limits enrollment, students from other universities or other programs at Ohio University must show strong academic performance. A cumulative grade point average of 3.0 or above will be required for consideration.

Students in their first year at Ohio University wishing to transfer into the School of Telecommunications must apply by March 1 for transfer the following fall (September). Students who have completed more than 48 hours must apply by October 1 for transfer the following winter (January). In addition, transfers from outside Ohio University must abide by the policies indicated in the "Undergraduate Admissions" pages at the beginning of this catalog.

In some exceptional cases, a student may be considered with less than the required 3.0 g.p.a. In these cases, the prospective transfer student must submit the transfer application as well as supporting documents. These support materials should include 3 letters of recommendation (2 from university instructors, 1 from the professional community), a resume, and a portfolio of work.

Students transferring into the school must be enrolled for a minimum of one academic year (three consecutive quarters) or their final 48 hours of earned credit in order to graduate from the program.

Further information regarding transfer policy may be found at <http://www.tcomschool.ohiou.edu/UG/about.html>

All transfer applications should be delivered to the School of Telecommunications office (RTVC 202) to the attention of the Associate Director of Undergraduate Studies.

Bachelor's Degree in Telecommunications

General Requirements for All Majors

1. Arts and humanities

Twenty quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses include Tier I freshman and junior composition with the balance of the hours chosen from art, art history, classical languages, comparative arts, dance, English, film, humanities, modern languages, music, philosophy, and theater.

2. Social sciences

Twenty quarter hours, with at least eight hours of 300- to 400-level courses. Courses may be chosen from anthropology, classical archaeology, economics, history, international studies, management, marketing, political science, psychology, and sociology.

3. Communication sciences

Twenty quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses may be chosen from classical languages, computer science, communication sys-

terms management, hearing and speech sciences, communication studies, journalism, linguistics, modern languages, and visual communication.

4. Mathematics and/or natural sciences

Tier I quantitative skills plus five quarter hours chosen from astronomy, biological sciences, chemistry, geology, mathematics, physical science, physics, physical geography, and environmental and plant biology

University General Education Tier II, African American Studies, and University Professor courses can be used to fulfill general requirements. All students must fulfill the Tier III requirement.

5. Telecommunications

The following core courses are required of all majors:

TCOM 100 or TCOM101	A Mediated World Introduction to TCOM	4 2
TCOM 203	Media and the Creative Process	4
TCOM 204	The Business of Media	4
TCOM 205	Media Analysis and Criticism	4
TCOM 367 or TCOM 453*	World Broadcasting Telecommunications Law and Regulations	4 4

*Required of students in the Media Management Sequence.

Sequence Requirements

Students entering the School of Telecommunications as fall quarter freshmen and transfer students must successfully complete TCOM 100 or TCOM 101 and earn a "C" or better in TCOM 203, 204, and 205 before proceeding in the major.

Corollary

Each student in the School of Telecommunications is required to complete a corollary of coursework. These are courses outside telecommunications selected by you and your advisor to enhance your area of interest. The corollary totals a minimum of 35 credit hours (20 at the 300-400 level), from no more than two areas. For instance, students in the video production sequence might choose courses from the School of Film, while students interested in politics and the media might find courses from the political science area useful.

Of special note is the required minor in music for students pursuing the music production track in the audio sequence. The music minor will fulfill the corollary in this track. (Please see requirements for the music minor in College of Fine Arts section.)

Digital Media: Special Effects, Games, and Animation Major code: BC5322

This plan of study is designed to provide students with skills in video game production and development, computer animation and digital effects for video, film, and multimedia. Emphasis is placed on the processes of design and production and the responsibilities and opportunities of working within a creative team. Students are required to complete the TCOM Core, the DM Sequence Core, and at least 8 hours of approved elective courses.

Digital Media: Effects, Games, and Animation Required Core:

TCOM 150L	Introduction to Digital Media	4
TCOM 220	Introduction to Audio Production	4
TCOM 240	Introduction to Video Production	4
TCOM 250	Introduction to Digital Media Production	4
TCOM 251	Nonlinear Scriptwriting	4
TCOM 350 or TCOM 357	Evolution of Multimedia Digital Games and Global Culture	4 4

Digital Media: Special Effects, Games, and Animation Electives: (8 hours required)

TCOM 253	Nonlinear Video Editing	4
TCOM 351	Computer Animation	4
TCOM 352	3D Modeling and Animation I	4

TCOM 353	3D Modeling and Animation II	4
TCOM 354	Interactive Video Production	4
TCOM 356	Game Development	4
TCOM 358	Digital Game Production	4
TCOM 415	Audio Post for the Moving Image	4
TCOM 418	Producing for Video	4
TCOM 431	Scriptwriting	4
TCOM 450	Multimedia Theory	4
TCOM 456	Advanced Game Development	4
TCOM 457	Senior Capstone Project	4
TCOM 493	Motion Graphics	4
TCOM 494	Advanced Digital Video Postproduction	4
	Interactive Audio Production course as approved by advisor	4

Audio Production Sequence

This plan of study is designed to provide majors with skills in various areas of audio production including commercial production, music recording, audio for multimedia, and sound for picture. Students must complete the Audio Production core and coursework from one of two tracks: Music Production or Audio Post Production.

Audio Production Core:

TCOM 220	Intro to Audio Production	4
TCOM 308	Technical Basis of Telecommunications	4

Music Production Track: Major code BC5353

TCOM 320	Recording Industry Survey	4
TCOM 413	Commercial Music Recording and Production	4
TCOM 414	Advanced Projects in Music Production	4
TCOM 313	Field Audio Production	4

Audio Post Production Track: Major code BC5354

TCOM 240	Intro to Video Production	4
TCOM 415	Audio Post-production for Moving Image	4

One or more of the following courses:

TCOM 425	Digital Video Post-production	
TCOM 486Y	AVW Productions	
TCOM 497	Independent Production Projects	4
	Telecommunications electives with approval of advisor, including at least one four-hour non-production course	4
	Corollary courses outside the school that support program goals (from no more than two areas with at least 20 hours at the 300 to 400 level) Music Production track requires a Music minor that will complete the corollary.	35

Management Sequence

Major code BC5312

This area of study is designed for those who aspire to work in mid- to upper-level leadership positions in the media industries. Courses are organized to provide an integrated understanding of the management, marketing, sales, creative, and regulatory processes in electronic media.

Management Core:

TCOM 459	Audience Research	4
TCOM 360	Electronic Media Mgt.	4
TCOM 461	Electronic Media Financial Management	4

Management Electives:

2 courses at 300- to 400-level:

TCOM 355	Broadcast and Cable Programming	4
TCOM 462	Broadcast and Cable Sales	4
TCOM 367	World Broadcasting	4
	Telecommunications electives with advisor approval	8
	Corollary courses from outside the school that support program goals; ACCT 101, ECON 103 and 104, and MGT 202 or MKT 202; 20 hours at the 300-400 level in business and/or organizational communication.	35

Media Studies Sequence**Major code BC5311**

This plan of study offers students the opportunity to build a program in one of four areas of study: Electronic Media, International Communication, Media and Society, and Politics and Media.

In addition, a student can design an individualized program of study. In consultation with the sequence director and a faculty advisor, the student submits for approval a proposal for coursework including justification and corollary.

Students must complete the TCOM Core, the Media Studies Core, and coursework from their areas of study. The following are required:

Media Studies Core:

TCOM 260	Mass Comm Theory	4
TCOM 279	History of Electronic Comm	4
	Area of Study	12
	Telecommunications electives with advisor approval	8
	Corollary courses outside the school that support program goals (from no more than two areas with at least 20 hours at the 300- to 400- level).	35

Recommended Areas:**Electronic Media Technologies**

3 of the following:

TCOM 308	Technical Basis of Telecomm	4
TCOM 421	Non-broadcast Video	4
TCOM 441	Instructional Telecomm	4
TCOM 463	New Technology	4
TCOM 465	Satellite Communication	4
TCOM 466	Technology, Communication and Culture	4

International Communication

3 of the following:

TCOM 371	Effects of Mass Comm	4
TCOM 384	Media Criticism	4
TCOM 463	New Technology	4
TCOM 465	Satellite Communication	4
TCOM 466	Technology, Communication and Culture	4
TCOM 486A	Age, Class, Gender, Race, Sexual Orientation	4

Media and Society

3 of the following:

TCOM 459	Audience Research	4
TCOM 384	Media Criticism	4
TCOM 440	Public Telecommunications	4
TCOM 454	Personal Values in Telecommunications	4
TCOM 466	Technology, Communication, and Culture	4

TCOM 475	Politics & Electronic Media	4
TCOM 483	Children and Television	4
TCOM 481	Women in Media	4
TCOM 482	Documentary Genres	4
TCOM 484	Television Genres	4
TCOM 485	The African-American Televisual Images	4
TCOM 486A	Age, Class, Gender, Race, and Sexual Orientation	4

Politics and Media

(3 of the following):

TCOM 459	Audience Research	4
TCOM 371	Effects of Mass Communication	4
TCOM 463	New Technology	4
TCOM 466	Technology, Communication, and Culture	4
TCOM 475	Politics & Electronic Media	4

Individualized Concentration

Specialized study with approval of sequence director and faculty advisor; minimum cumulative g.p.a. of 3.0 required.

Video Production Sequence**Major code BC5313**

This plan of study is designed to provide skills in video production with special emphasis on the creative responsibilities of producing and directing. Students must complete the TCOM core, Video Production core, a minimum of 8 hours of video production electives at the 300- or 400-level, and a minimum of 8 hours of non-production electives. The following are required:

Video Production Core:

TCOM 240	Intro to Video Production	4
TCOM 231	Short-form Media Scriptwriting	4

Video Production Electives (2 courses required):

TCOM 308	Technical Basis of Telecommunications	4
TCOM 318	Multiple-Camera Producing and Directing	4
TCOM 319	Single-Camera Producing and Directing	4
TCOM 323	Computer Animation	4
TCOM 425	Digital Video Post-production	4
TCOM 418	Producing for Video	4
TCOM 419	Advanced Video Production	4

Telecommunications electives with approval of advisor, including at least 8 hours of non-production courses

Corollary courses outside the school that support program goals (from no more than two areas with at least 20 hours at the 300- to 400-level)

Minor in Telecommunications**Minor code ORTCOM**

The minor in telecommunications is available to students in all disciplines.

Required Core Courses (12 Hours)

TCOM 203	Media and the Creative Process	4
TCOM 204	The Business of Media	4
TCOM 205	Media Analysis and Criticism	4

Elective Courses (20 hours)

Select 20 hours from:

TCOM 231, 260, 279, 355, 360, 367, 371, 384, 421, 430, 431, 432, 453, 454, 463, 464, 465, 475, 481, 482

Up to 8 hours in equivalent courses from other institutions will be accepted, but you must take 24 hours in telecommunications at Ohio University to complete the minor.

Total Hours: 32

Internships

While not required, telecommunications majors are strongly encouraged to undertake an internship. The school and the college both have hundreds of professional internship opportunities available to students with nearly every major media organization in the United States, as well as internationally. Majors may receive one hour of credit for an off-campus practicum (TCOM 390 or 391) as early as the summer following the freshman year. Students may undertake the formal internship (TCOM 490) by the spring or summer of the junior year, or during the senior year. An internship provides between two and sixteen hours of credit (only four credits apply to the major; the remainder apply to overall hours) for full-time work with an approved sponsor during an academic term. To qualify for an internship, completion of 130-170 credit hours with a minimum cumulative g.p.a. of 2.7 is required. For information, contact the internship coordinator in the dean's office.

Other Requirements and Standards

Typically, no course may be counted toward more than one type of school requirement. For example, a course used to meet a Telecommunications General Requirement may not also be used to meet a sequence requirement. However, a Tier II course may also be used to fulfill a Telecommunications General Requirement.

School of Visual Communication

Terry Eiler, Director

The Scripps College of Communication offers a visual communication degree with four specialized sequences built on an interdisciplinary foundation. The school has been twice recognized as a Program of Excellence in photography and visual communication by the Ohio Board of Regents. Students earn a Bachelor of Science in Visual Communication degree.

The program is designed to provide students with a realistic broad-based professionally oriented education in visual communication while providing a liberal arts background necessary for a strong academic foundation.

Major sequences are offered in informational graphics/publication design, interactive multimedia design, photojournalism for newspapers and magazines, and commercial photography (advertising and editorial photographs).

Goals of the School

The goals of the School of Visual Communication are (1) to equip students with the necessary skills to be successful and compete for leadership roles in the field; (2) to provide assistance and professional guidance in visual communication to working photographers, designers, editors, newspapers, press services, magazines, photographic departments, multimedia media production units, and visual communication associations; (3) to set high standards of visual integrity and communication ethics; and (4) to foster and promote scholarly research and creative activities.

Internships

In an effort to provide practical training, the school requires students to work at least one paid internship for 10 weeks

during their college career. Any qualified student may compete for an internship. Many students have several internships before graduation.

In recent years, Ohio University visual communication students have worked on paid internships at newspapers and magazines and in advertising, commercial photography, fashion industry, and multimedia design. Internships have been available in almost all states and several international locations.

Many Ohio University visual communication students are active members of the Ohio News Photographers Association and other state press photographer groups and are student members of the National Press Photographers Association, the Society for News Design, National Association of Black Journalists, and the American Society of Media Photographers. Ohio University students have been highly successful in state and national competitions.

Bachelor of Science in Visual Communication

Admission Requirements—B.S.V.C.

The School of Visual Communication admits a limited number of students and the selection process is very competitive. The application deadline is December 15.

Students seeking acceptance to the School of Visual Communication must first be accepted for admission to Ohio University. Once accepted by the University, applicants will receive an invitation to interview for direct admission to the school.

Interviews are normally conducted in January of the year you wish to enter the school. The interview process includes a review of the applicant's portfolio and submission of a written essay.

Successful student applicants usually rank in the top quarter of their high school class and/or have outstanding SAT or ACT scores. In addition, students who demonstrate notable talent or experience or are members of a historically under-represented group are encouraged to seek admission.

For this career-oriented professional program you will need professional equipment to complete assignments and eventually compete in the job market. Ensuring every opportunity for students to excel in a very competitive field, the school requires use of certain basic levels of equipment.

All students are required to have access to a 35mm SLR camera with a 35mm f/2.8 lens or a 50mm f/2.8 lens. The camera should permit full manual control over aperture, shutter speeds, film speed settings, and focus. An automatic "point and shoot" camera will not meet the requirements of any VICO photographic class. Please contact the school for current equipment recommendations.

It is highly recommended that all students in the school have their own computer for use in completing class assignments. Students majoring in interactive multimedia and informational graphics/publication design are required to have access to a computer with appropriate software by the time they enter VICO 314. Please contact the school for current hardware and software recommendations.

Photojournalism students entering VICO 390 should have access to at least one professional-level SLR digital camera, two lenses, and necessary accessories. One lens should have a 28mm or wider focal length with an f/2.8 or faster aperture. The second lens should be in the 135 to 200mm f/2.8 range.

Zoom lenses are also acceptable if they meet the fixed aperture requirement of f/2.8.

Commercial Photography students entering VICO 321 should have access to a professional-level medium-format camera with interchangeable film backs, a Polaroid back, one wide-angle lens, one telephoto lens, and an electronic flash meter.

You can expect to spend approximately \$400-\$700 per photography course for materials.

Transfer Students

The following policy has been established by the School of Visual Communication as a means of selecting the best qualified students for the program. The academic quality of the curriculum depends in part on maintaining enrollment at a number that may be effectively served by faculty and facilities. The school is dedicated to top-quality instruction, and this policy is one means through which that goal is achieved.

Very limited transfer openings may be available in each major sequence each academic year.

The School of Visual Communication will accept transfer students **only** when openings are available. Please call the school to determine the current status of transfer openings.

Students transferring with over 90 hours of credit will find it difficult to complete the school's curriculum in two years.

Transfer applicants from other institutions must follow the procedures for admission to Ohio University before contacting the School of Visual Communication.

You must be enrolled for one academic year (three consecutive quarters) or the final 48 hours in the school to earn a degree.

Transfer requirements:

1. Internal transfer students will be considered only when they have completed at least 48 quarter hours of study.
2. Students must have a minimum 3.0 g.p.a. at the time of transfer.
3. Current Ohio University students must have completed VICO 120 and VICO 140 with a grade of C or better (VICO 120 is offered only in fall quarter and VICO 140 is offered only in the winter quarter).
4. Current Ohio University students must have completed Journalism 133 with a grade of C or better.

Students applying for transfer must submit to the school an application packet that includes the following material:

1. Copy of the applicant's most recent DARS report or transcript. This information must reflect grades from your most recent quarter or semester.
2. Written essay explaining reasons for applying for transfer to the School of Visual Communication. Please indicate your desired major sequence. Academic goals should be included in this statement of purpose.
3. Resumé.
4. Students must have three letters of recommendation (all should be from University professors outside of VisCom).
5. Portfolio.
6. Must interview with a faculty committee from the school.

Transfer applications will be considered once a quarter only, if openings are available. Deadline for transfer application materials: Noon on the third Friday of fall, winter, or spring quarter.

Major sequence change requirements for students in the School of Visual Communication:

Students with less than 90 earned credit hours may apply for transfer within the school. Requirements include: a written request by the student to the school, approved by faculty committee, and available openings in the requested major sequence.

Students with over 90 earned hours seeking an internal transfer must meet the same transfer requirements as external students seeking admission to the school.

General Requirements—B.S.V.C.

School of Visual Communication majors are required to meet all General Education Requirements of Ohio University, including Tier I, Tier II, and Tier III.

The general education courses provide a liberal arts and sciences core for students by requiring the following courses:

Anthropology 101 (1 qtr)

History (2 qtrs)

Philosophy 120 and 130 (2 qtrs)

Political Science (2 qtrs)

Psychology 101 (1 qtr)

Sociology 101 (1 qtr)

A thoughtful selection of other courses from the Tier II list will enable you to meet the school requirements while fulfilling Ohio University's Tier II requirements.

Specialization Area Requirement

Visual Communication students must complete a minimum of 20, school-approved hours of related study in advanced courses (200 level and above) outside of the school.

No course may be counted for more than one type of school requirement. For example, a course used to meet a general requirement may not also be applied to a specialization area or sequence requirement.

Visual Communication Core Requirements

All Visual Communication majors complete a basic core of seven courses totaling 33 hours:

ART 116	Drawing I	4
AH 237	Photo History Survey	4
JOUR 133	Precision Language for Journalists	4
VICO 120	Intro to Visual Communication (fall only)	4
VICO 140	Studies in Visual Communication (winter only)	4
VICO 221	Intro to Visual Communication Skills	4
VICO 314	Intro to Publication Design	5
VICO 371	Digital Imaging	4
Total core requirements		33

Standards

- 1 You must earn a C (2.0) or better in JOUR 133 and in all professional courses (VICO, JOUR, ART, and TCOM), including professional electives, to graduate. A grade of C- does not meet this requirement.
- 2 To qualify for admission to JOUR 231, you must achieve at least 25 words per minute on a typing examination administered on the first day of class.
- 3 Failure to achieve a C in a professional course after 2 attempts will result in the student's being dropped from the School of Visual Communication.

Visual Communication Sequence Requirements
Informational Graphics/Publication Design
Major code BS6924

ART 250	Graphic Design Principles	5
ART 251	Typography	5
ART 113	Three Dimensional Design	4
ART 117	Drawing II	4
JOUR 231	News Writing	4
JOUR 233	Information Gathering	3
JOUR 411	Communication Law	3
VICO 311	Informational Graphics	5
VICO 323	Publication Layout and Design	4
VICO 335	Picture Editing	3
VICO 336	Adv. Picture Editing	3
VICO 361	Intro to Web Design	4
VICO 412	Adv. Informational Graphics	5
VICO 426	Adv. Publication Layout and Design	4
	Total sequence requirements	56

Interactive Multimedia

Major code BS6923

JOUR 233	Information Gathering	3
TCOM 110	Production Writing/Planning	4
TCOM 220	Audio Production	4
TCOM 240	Video Production	4
TCOM 223	Computer Animation	4
VICO 311	Informational Graphics	5
VICO 361	Intro to Web Design	4
VICO 462	Advanced Web Design	4
VICO 473	Interactive Media	4
VICO 488	Interactive Media II	4
	Total sequence requirements	40

Photojournalism

Major code BS6922

JOUR 231	News Writing	4
JOUR 233	Information Gathering	3
JOUR 411	Communication Law	3
VICO 222	Visual Communication Tools	4
VICO 335	Picture Editing	3
VICO 390	Intro to Photojournalism	4
VICO 327	Photo Illustration—Fashion	4
or VICO 328	Photo Illustration—Still Life	
or VICO 393	Intermediate Photojournalism III	
or VICO 324	Portraiture	
VICO 391	Intermediate Photojournalism I	4
VICO 392	Intermediate Photojournalism II	4
VICO 486	Advanced Photo Reportage I	4
VICO 487	Advanced Photo Reportage II	4
or VICO 421	Documentary/Essay	or 5
	Total sequence requirements	41-42

Commercial Photography

Major code BS6925

JOUR 250	Advertising Principles	4
VICO 222	Visual Communication Tools	4
VICO 321	Intro to Photo Illustration	4
VICO 327	Photo Illustration—Fashion	4
VICO 328	Photo Illustration—Still Life	4
VICO 324	Portraiture	4
or VICO 393	Intermediate Photojournalism III	4
VICO 427	Adv. Photo Illustration (Business Practices)	5
VICO 428	Adv. Photo Illustration (Studio Practices)	5
VICO 429	Adv. Photo Illustration (Applications)	5
	Choice of 8 hours of advisor approved business law, accounting, marketing courses	8
	Total sequence requirements	43

College of Education

<http://www.ohio.edu/education/>

McCracken Hall

Renée A. Middleton
Dean

Glenn A. Doston
Senior Associate Dean

Dianne M. Gut
Associate Dean

The College of Education is a professional college whose major goal is to prepare individuals for future careers related to education. A wide range of programs is offered for teaching at the early childhood, middle childhood, special education, and high school levels and for other educational positions. The college provides graduate study in a variety of professional education fields.

All undergraduate programs include a broad base of general education, intensive preparation in the subject matter field, and professional emphasis that combines theory with practice. Each program is thus designed to prepare students to enter their future career with a strong background in liberal arts, educational strategies and techniques, and a thorough understanding of teaching and learning processes.

The College of Education is accredited by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education (NCATE) and is approved for teacher preparation by the Ohio State Department of Education.

The College of Education shares the mission of Ohio University. Its special mission is to provide supportive and challenging experiences that foster the development of educational and human services professionals and the communities they serve. The college is a center for the development of knowledge and effective practices in education, human development, and organizational leadership. It promotes the efforts of participants to design and experiment with new practices, evaluate their impact, and share the results. Thus, programs evolve and are frequently improved to comply with changing standards established by the State of Ohio and accrediting agencies.

The information provided here does not include changes made after the printing deadline. Students must follow the program requirements that are in effect at the time of their acceptance into a teacher licensure program and be prepared to incorporate additional changes that may be required by program revisions. When you first enroll at Ohio University, the academic requirements and policies you must follow are determined by the catalog of entry and are effective for a period of five years. If you do not meet all requirements within five years, the requirements of the current catalog apply. Contact the Office of Student Services for current information about a particular program.

Bachelor of Science in Education

The Bachelor of Science in Education represents the completion of a program designed to allow you to attain competence in three areas: (1) the principal academic fields; (2) the knowledge, skills, attitudes, and values underlying teaching; and (3) general/liberal education.

Besides University General Education Requirements, you must complete the licensure requirements established for the program you are following.

The College of Education's Department of Teacher Education has five undergraduate program areas. These are: Early Childhood, Middle Childhood Education, Special Education, Adolescent to Young Adult Education, and Multi-age Education Programs.

Courses in Reading and Literacy Education are infused in all program

areas, and may also be chosen by students seeking an endorsement in Reading Education.

The Early Childhood major, jointly offered by the College of Education and the College of Health and Human Services, prepares you to teach children three years old through third grade. In addition to being qualified to teach in primary grades, you can also teach in preprimary programs such as public school preschools, nursery schools, child-care centers, and Head Start programs.

Students interested in the Early Childhood Education major will enter Ohio University with a pre-major code of ND6854 (Early Childhood Pre-major). To be admitted into the major, you must apply and be accepted after successful completion of requirements:

The following courses must be completed to be eligible for admission into the Early Childhood Education major. (According to the 2006-08 *Ohio University Catalog*)

1. Completion of 45-quarter hours of credit with an overall grade-point average (g.p.a.) of 2.75. A current DARS and (if a transfer student) transcripts from previous coursework at other institutions must be submitted with the application materials.

2. Students must complete the following courses with a grade of "C" or better in each course:

- PSY 101 General Psychology
- Tier I freshman composition and COMS 103
- Science—two courses with laboratories
- Mathematics—2 courses MATH 120 or above

(Note: A "C" or better in all math and science requirements will be required for admission to advanced standing)

- HCCF 160 Intro to Child Development
- HCCF 170 Intro to ECE
- HCCF 160A Observation and Assessment

3. Satisfactory score on the PRAXIS I (PPST/CBT) Test. You must achieve scores of 172 or above in writing and mathematics and 173 or above in reading OR be exempt from the test due to a standardized test score. You must have a composite score of 21 or better on the ACT and/or 990 or better on the SAT to be exempt. You can not enroll in education courses until this requirement is met.

4. Submission of a statement confirming that your record is clear of any felony convictions, obtained by student services.

5. Submission of results of the tuberculosis skin test (administered by Hudson Health Center or other appropriate office).

6. Submission of two professional references. Transfer students must meet all of the above requirements. Official transcript(s) from the previous institution(s) must be submitted.

7. You must meet the criteria for selective admission to and retention in teacher education in early childhood. Enrollment in the program is limited to promote quality instruction, appropriate field placement, and effective advising. Not all students who apply and meet the minimum criteria will be accepted. Contact your Office of Student Services for details on the Early Childhood restrictive admission criteria and process.

Procedure for application:

1. Complete the requested information online (items above) and submit your application by June 1.

2. Request letters of recommendation from at least two professional people who can address your qualifications for admission into the Early Childhood Education major and Professional Education. Provide these reference people with the Web site <http://www.EarlyChildhoodEducationApplication/>. The reference letters must be submitted electronically by June 1.

3. Submit in person or by mail items 3–5 above. These items must be received by June 1 of the year in which you apply at the School of Human and Consumer Sciences, Grover Center W324.

Students who are admitted to the Early Childhood Education major will automatically be admitted to Professional Education.

Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree conferred jointly by the College of Education and the College of Health and Human Services. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license in Early Childhood Education.

Middle Childhood Education prepares students for a license to teach grades 4 through 9, in elementary school upper primary grades, middle school, junior high school, or high schools (9th grade only). All Middle Childhood licensure programs require students to choose two subject area content specializations. The subject content specializations include Language Arts, Mathematics, Science and Social Studies. A Generalist Endorsement for each of the four subject specializations will be available in the near future for students who wish to add a third or fourth specialization to the Middle Childhood license.

Students must meet the criteria for selective admission and retention in Middle Childhood Education. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license in Middle Childhood Education.

Adolescent to young Adult Education (formerly Secondary Education) prepares students for a license to teach in high schools or junior high schools in Grades 7 through 12. Specific programs vary by subject content areas, including Earth Sciences, Integrated Language Arts, Integrated Mathematics, Integrated Sciences, Integrated Social Studies, Life Sciences and Physical Sciences (Chemistry and Physics).

Students must meet the criteria for selective admission and retention in the Adolescent to Young Adult Education program. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license in Adolescent to Young Adult Education.

Special Education offers programs leading to the Intervention Specialist teaching license. The license is valid for teaching learners ages 5 through 21 and kindergarten through grade 12. There

Passing Rates of Certification/Licensure Examinations

All students are required to take the appropriate PLT and content PRAXIS II tests prior to graduation. Test scores must be submitted to the Office of Student Services. Students are required to pass the appropriate PRAXIS II tests in order to be recommended for licensure. For initial licensure in the State of Ohio, individuals must pass PRAXIS II examinations. This series of tests, developed by the Educational Testing Service, include professional knowledge and the content knowledge test(s) for the specific license being sought. Specific information can be found at <http://www.ets.org/>.

Beginning fall quarter 2006 (2006–2007 academic year), all students in licensure programs MUST take the required Praxis II examinations before graduation. You will NOT be permitted to graduate until your Praxis II results have been received by the Office of Student Services located in McCracken Hall Room 124. *You are NOT required to pass the Praxis II in order to graduate. Passing scores are required for licensure. Students are also required to submit a complete copy of their Praxis II scores at the time they turn in their application.*

Students wishing to graduate in:	Praxis II must be taken no later than:
Fall Quarter	September
Winter Quarter	January
Spring Quarter	April
Summer Quarter	June

are two Intervention Specialist licensure programs available. The Intervention Specialist Mild to Moderate educational needs major and the Intervention Specialist Moderate to Intensive needs major. Enrollment in the program is selective and limited to promote quality instruction, appropriate field placement, and effective advising.

Students must meet the criteria for both professional education and selective admission and retention in the Special Education program. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license as an Intervention Specialist.

Multi-Age Education programs prepare students for a license to teach in Ohio in grades pre-K through 12. Specific programs include Modern Languages, Music Education-Choral Emphasis, Music Education-Instrumental Emphasis and Physical Education.

Students must meet the criteria for selective admission and retention in the Multi-Age Education Program. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license in Multi-Age Education.

All undergraduate teacher education programs at Ohio University conform to state standards for licensure issued by the State Department of Education of Ohio and the National Council for Accreditation of Teacher Education.

These programs and courses apply to all students entering Ohio University in the 2005-06 school year but are subject to change to conform to any revisions set forth by the State Department of Education and national accrediting agencies. If you have any questions about your program requirements, contact your advisor or Student Services, Ohio University, McCracken Hall 124, Athens OH 45701-2979, telephone 740.593.4400. E-mail: education@ohiou.edu. Internet: <http://www.ohio.edu/education/>

Title II of the Higher Education Act (1998) requires that all institutions engaged in teacher preparation to report information on how the institution performed based on annual data from a national testing company. See the accompanying chart for the most recent data.

Selective Admission and Retention

The college has a selective admission and retention process that applies to all students who intend to complete the teacher preparation program through Ohio University. Decisions regarding the retention of teacher education students in licensure programs will be made through a continual quarterly evaluation of progress in coursework, clinical experiences, and field-based experiences. Evaluation criteria will be directly related to the specific knowledge, skill, attitude, and value objectives associated with each experience. There are three selection phases in this process, two of which are described below. The third phase is detailed under "Student Teaching."

You may appeal a decision regarding admission or retention by filing an appeal with the Credential Review Committee. Appeal information may be obtained from Student Services, McCracken Hall 124.

Admission to Professional Education for Adolescent to Young Adult, Middle Childhood, Multi-Age Education, and Special Education Majors

You must be admitted to professional education before taking any education courses numbered 200 and above.

Generally you apply for admission to professional education during the third quarter of your first year. Athens campus students must attend a group meeting arranged by Student Services, and regional campus students should check with Student Services or the dean's office on the regional campus for information.

Requirements

Students must include specific courses listed below during their first 45 hours of enrollment. These requirements are subject to change.

1 Completion of 45 quarter hours of credit with an overall grade-point average (g.p.a.) of 2.75. No education courses may be included in the g.p.a.

2 Students must complete the following courses with a grade of "C" or better in each course.

a PSY 101 General Psychology

b All Tier I freshman composition and mathematics, and COMS 103.

3 Satisfactory performance on the PRAXIS I (PPST/CBT) Test. You must achieve scores of 172 or above in writing and mathematics and 173 or above in reading **OR** be exempt from the test due to a standardized test score. You must have achieved a composite score of 21 or better on the ACT and/or 990 or better on the SAT to be exempt. You may not enroll in education courses until this requirement is met.

4 Submission of the results of a background check through BCII.

5 Submission of results of the tuberculosis skin test (administered by Hudson Health Center or

other appropriate office).

6 Screening and recommendation by a representative appointed by faculty.

7 Submission of two professional references.

8 If you are a transfer student, you may be required to submit recommendations from your previous college. Your g.p.a. may be considered in admission decisions.

Admission to Professional Education for Early Childhood Majors

Generally you apply for admission to Professional Education during the third quarter of your first year. Athens campus students must attend a group meeting arranged by Student Services, and regional campus students should check with Student Services or the dean's office on the regional campus for information.

You must meet the criteria for selective admission to and retention in teacher education in early childhood. Enrollment in the program is limited to promote quality instruction, appropriate field placement, and effective advising. Not all students who apply and meet the minimum criteria will be accepted. Contact your Office of Student Services for details on the Early Childhood restrictive admission criteria and process.

Requirements

Students must include specific courses listed below during their first 45 hours of enrollment. These requirements are subject to change.

1 Completion of 45 quarter hours of credit with an overall grade-point average (g.p.a.) of 2.75. No education courses may be included in the g.p.a.

2 Students must complete the following courses with a grade of "C" or better in each course.

a Psychology 101

b Communication Studies 103

c Tier I Freshman Composition

d Early Childhood majors must complete 2 mathematics courses at the 120 level or above.

e Early Childhood majors must complete two science courses with labs.

3 Satisfactory or above performance on the PRAXIS I (PPST/CBT) test. Students must achieve at least minimum scores of 172 in writing and mathematics and 173 in reading. Scores that exceed the minimum are preferred. Students are exempt from the PRAXIS I test if they have earned a 21 or higher on the ACT or a 990 or higher on the SAT prior to enrolling in college coursework.

4 Submission of the results of a background check through BCII.

5 Submission of results of the tuberculosis skin test (administered by Hudson Health Center or other appropriate office).

6 Screening and recommendation by a representative appointed by faculty.

7 Submission of two references by professionals.

8 If you are a transfer student, you may be required to submit recommendations from your previous college. Your g.p.a. may be considered in admission decisions.

Admission to Advanced Standing in Professional Education

You must be admitted to advanced standing before taking any education courses numbered 300 or above. You must maintain an overall g.p.a. of 2.75, as well as a 2.75 g.p.a. in each teaching field for which licensure is sought to continue to take education courses numbered 300 or above. Methods courses can be taken no more than twice. Failure to obtain a satisfactory grade can result in dismissal from the program.

Generally you apply for advanced standing in professional education at the end of the third quarter of your sophomore year. Athens campus students must attend a group meeting arranged by Student Services, and Regional campus students should check with Student Services or the dean's office on the regional campus for relevant information.

These requirements are subject to change.

1 General requirements

a Completion of 90 quarter hours of credit with an overall g.p.a. of 2.75.

b An accumulative g.p.a. of 2.75 in each teaching field for which a licensure is sought.

c Satisfactory reports from:

(1) Judiciaries

(2) Faculty

d Screening and recommendation by a representative appointed by faculty.

e Completion of a one-page statement of purpose, including students' goals as future educators.

2 Specific requirements for early childhood education

Completion of the following courses with a minimum grade of "C" in each course and a g.p.a. of 2.75 or higher:

(1) HCCF 160

(2) HCCF 160A

(3) HCCF 170

(4) HCCF 260

(5) HCCF 260L

(6) HCCF 361

(7) HCCF 361L

(8) EDEC 206

(9) Completion of ALL science courses with labs (PBIO 100L or BIOL 101, GEOG 101 or GEOL 101, P 5C 100 and 140 or P 5C 101L or PHYS 201). Fifteen hours of science with labs are required. Courses must be chosen from the above list. Keep in mind that one science course with a lab must be chosen from the Biological Sciences; one course with a lab from the Earth Sciences, and one course with a lab must come from the Physical Sciences. Each course must be completed with a grade of "C" or higher. Students will not be admitted to Advanced Standing until all required courses are completed with a grade of "C" or higher.

3 Specific requirements for middle, adolescent-young adult, multi-age (Pre-K-12) and intervention specialist education

a Completion of the following courses with a minimum grade of C in each:

(1) EDTE 200

(2) EDTE 201

(3) EDTE 202

b A 2.75 g.p.a. in each teaching field for which licensure is being sought.

Transfer to the College of Education

Students from other colleges at Ohio University who wish to transfer into the College of Education must have an accumulative g.p.a. of 2.75. Admission requirements are subject to revision.

Professional Expectations

Membership in the Ohio University academic community carries with it certain rights and responsibilities that are specifically delineated in the Student Code of Conduct. In addition, membership in the education profession requires that you demonstrate the ability and commitment to respect the dignity, worth, and diversity of all persons with whom you work and study, including peers, school students, and professional contacts on campus and in the community. The complete policy regarding professional expectations is available from the College of Education.

Student Teaching

Successful student teaching represents the culmination of professional preparation; it is a requirement in all teacher preparation programs. Early Childhood and double majors require additional student teaching.

Application

It is your responsibility to submit an application for student teaching to the Office of Student Services no later than December 1 preceding the academic year in which a student teaching assignment is desired.

Schedule, Housing, Transportation, and Assignments

You will experience a complete range of the teacher's activities in full-time student teaching assignments for one quarter. It is expected that you will take no other courses when you are student teaching. Exceptions to this policy must be approved by the Associate Dean. Student teachers cannot be paid for student teaching. The assignment of each student to a school is the responsibility of the Office of Student Teaching. You must secure your own housing and provide your own transportation to your assignments. You will need a car. Student teaching assignments in the Athens area are made within a commuting radius from one of the six campuses. You will indicate your preferences when you apply. The University assumes no responsibility for your transportation.

Prerequisites for Student Teaching

Applicants are evaluated for admission to student teaching in terms of the

prerequisites described in this section. You are responsible for meeting the appropriate prerequisites prior to the opening of the quarter designated for student teaching on your application. In addition to the prerequisites detailed in this section, applicants in music, physical education, human and consumer sciences, and hearing and speech therapy must have approval of the appropriate departmental head.

Enrollment in student teaching is open only to Ohio University degree candidates or to degree holders who are completing Ohio licensure requirements and who will be eligible for Ohio University's recommendation for an Ohio license upon the completion of student teaching.

Requirements must be completed by the time you begin student teaching, not at the time of application. It is recommended that the Praxis II be taken before student teaching; it must be taken prior to graduation.

1 General requirements

These requirements are subject to change.

a Completion of at least two quarters (30 quarter hours) of residence work at Ohio University. Transfer students must complete at least one-fourth of the preparation in the principal teaching field at Ohio University.

b Completion of at least 135 quarter hours with accumulative g.p.a. of 2.75.

c Completion of all requirements to be admitted to advanced standing in professional education at least one quarter prior to starting student teaching, including passing scores on PRAXIS I or equivalent.

d Completion of junior-level English composition requirement with a C or better.

e Completion of a significant portion (at least 75 percent) of the general education portion of the teacher education program you are pursuing and all of the University General Education Tier I and Tier II requirements.

f Screening and recommendation for student teaching by a representative appointed by the faculty.

2 Specific requirements for early childhood education: EDPL 458, 459, 465; early childhood practicum

a You must meet all general requirements for admission to student teaching.

b Completion of the following courses with a g.p.a. of 2.75 and a minimum of a C in each:

(1) HCCF 160, 160A, 170, 260, 260L, 361, 361L, 363, 363L, 371, 455, 455L, 463, 465, 467

(2) EDTE 220, 371C, EDEC 269 or 206, 225, 319, 330, 330L, 340, 340L, 350, 350L, 421, 421L

3 Specific requirements for middle childhood: EDPL 461, 462, 465

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

(1) EDTE 200, 201, 202, 371A

(2) EDCS 301, 301L, 400

(3) EDCT 203

(4) EDMC 300, 301

(5) Eighteen hours of state required reading courses: EDTE 220, 325, 420, and 421

(6) Specific methods courses, one in each concentration area

b Completion of a major portion (at least 75 percent) of the work in each of the two concentration areas in which the student wishes to be licensed.

c An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

4 Specific requirements for adolescent-young adult: EDPL 463, 464, 465

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

(1) EDTE 200, 201, 202, 371B

(2) EDCS 301, 301L, 400

(3) EDCT 203

(4) EDSE 350, 351

(5) Methods courses associated with your content area

b Completion of a major portion (at least 75 percent) of the work in each of the teaching fields in which the student wishes to be licensed.

c An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

5 Specific requirements for multi-age music, physical education, and the modern languages: EDPL 461, 463, 465

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

(1) EDTE 200, 201, 202, 371B

(2) EDCS 301, 301L, 400

(3) EDCT 203

(4) EDSE 350, 351

(5) Methods courses associated with your content area

b Completion of a major portion (at least 75 percent) of the work in each of the teaching fields in which the student wishes to be licensed.

c An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

6 Specific requirements for mild-moderate educational needs: EDPL 461, 463, 465

a Completion of all courses in Blocks I, II, III, and IV with a minimum grade of C in each course and a 2.75 g.p.a. in all blocks.

b Completion of all field experience courses required in Blocks I, II, III, IV, and EDEC 330, 330L, EDTE 220, 325, EDCS 301, 301L, 400.

c Eighteen hours of state required reading courses: EDTE 220, 325, 420, and 421

7 Specific requirements for moderate-intensive educational needs: EDPL 461, 463, 465

a Completion of all courses in Blocks I, II, III, and IV with a minimum grade of C in each course and a 2.75 g.p.a. in all blocks.

b Completion of all field experience courses required in Blocks I, II, III, IV, and EDEC 330, 330L, EDTE 220, 325, EDCS 301, 301L, 400.

c Eighteen hours of state required reading courses: EDTE 220, 325, 420, and 421

Graduation Requirements

Each student must earn at least 192 quarter hours and successfully complete a program to receive a degree from the College of Education. Students completing two degrees must complete a minimum of 208 hours. No more than 20 hours of courses may be taken through the Pass/Fail option. No more than 6 hours of HSC, HSM, HSW, or PED classes may count in the total hours required for graduation. Additionally, no more than 8 hours of developmental coursework may be used toward the completion of a degree. Although courses can apply to more than one requirement, the hours earned for such classes may only count once in the total. Students are required to have an accumulative g.p.a. of 2.75, and to have a 2.75 or higher in the field(s) for which licensure is sought.

Teaching Licenses

If you plan to teach in Ohio, you submit your application for a teaching license to student services one month before completing the required classes. Before you will be licensed to teach, passing scores for the Praxis II exams must be reported to Student Services in the College of Education. You also need a 2.75 overall g.p.a. and a 2.75 g.p.a. in each field for which licensure is sought. Applications may be obtained from the Department of Education's Web site. The license is issued by the State Department of Education and qualifies you to teach the subjects indicated on the license.

To be recommended by Ohio University for licensure, you must have a level of preparation in your major area of specialization that corresponds with the outline on the preceding and following pages, even though these requirements in many instances exceed those shown in the state licensure regulations.

Completion of requirements for graduation and of the professional courses required for licensure does not ensure that you will be recommended for licensure. Instructors in various courses, especially in courses in education and student teaching, will evaluate your fitness for the teaching profession in ways other than observation of academic performance in the classroom. Limitations that might impair your effectiveness as a teacher in the public schools will be made a part of your record. When you apply for a license, this record will be examined and your fitness for teaching given further consideration.

All students applying for a teaching license must undergo a background check by the Bureau of Criminal Identification and Investigation (BCI). The State Department of Education will not issue a new license until it receives a copy of the background check from the BCI. This requirement includes:

- 1 Those applying for their first license
- 2 Those who have a license but are applying for an additional license

If you are applying for an endorsement, you will not need to undergo a background check.

If you are not planning to teach in Ohio, familiarize yourself with the requirements specified by the state in which you expect to teach.

Once you are issued a two-year provisional license, you are required to complete the Entry Year Program and Performance Based Assessment (PRAXIS III) in order to be eligible for a five-year professional license.

Out-of-State Licensure and Reciprocity

Many states have licensure guidelines that allow all NCATE-accredited colleges to recommend students for licensure. If you need to obtain licensure outside Ohio, contact the Department of Education in the appropriate state to obtain an application and learn if additional tests or courses are required. Your out-of-state application should be sent to Student Services, McCracken Hall.

Partnerships

In conjunction with public schools in southeastern Ohio, the College of Education has developed several partnerships. Partnership programs provide increased field experience opportunities for preservice teachers to learn with, and

from, experienced teachers. Partnership schools support and encourage ongoing professional development for faculty and administrators. Current partnerships for Early Childhood Education include: Chauncey Literacy Partnership, East R.E.A.D. Partnership, and The Plains Partnership. For Middle Childhood, Adolescent to Young Adult, and Multi-Age majors, the Creating Active and Reflective Educators (C.A.R.E.) Partnership is offered.

Placement

The Office of Career Services, located in Lindley Hall, offers assistance to undergraduate students seeking educational positions. Information about available teaching and administrative positions in the public schools, as well as openings in education, student personnel, counselor education, and physical education departments of colleges and universities of most states and many foreign countries, is disseminated through the office.

Education Abroad

COST Program

The COST Program arranges international student teaching experiences for qualified Ohio University education majors. All COST schools overseas are English speaking or bilingual. Education majors apply a year in advance of the quarter they wish to student teach. Additional requirements include EDCS 450 (fall quarter only), EDCS 205 (spring quarter only) and a COST Teaching Practicum the quarter prior to going abroad. COST student teaching satisfies the state requirement for licensure. For additional information, visit <http://www.teachabroad.ua.edu/> and see Dr. Rosalie Romano, COST coordinator.

For information about education abroad opportunities, also refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

Department of Counseling and Higher Education

The Department of Counseling and Higher Education offers only graduate programs. However, some undergraduate courses are available in career counseling and human relations. For more information about graduate programs, contact Student Services, McCracken Hall 124, telephone 740.593.4420.

Department of Educational Studies

The Department of Educational Studies offers only graduate programs; however, some undergraduate courses are provided for licensure programs in the Department of Teacher Education. For more information about graduate programs, contact the Office of Student Services, McCracken Hall 124, telephone 740.593.4420.

Department of Teacher Education

The Department of Teacher Education comprises five major program areas: early childhood education, middle childhood education, secondary education (adolescent-young adult), special education (intervention specialist) and multi-age education. The department provides the opportunity for students admitted to professional education to pursue undergraduate courses leading to teacher licensure in the state of Ohio. Listed below are program descriptions and course requirements for each of the licensure patterns offered.

For more information about undergraduate programs contact the Office of Student Services, McCracken Hall 124, (740) 593-4400.

Changes in state standards may dictate requirement changes not available at printing. Check with the student services office for current information.

Early Childhood Education

Major Code B56854

Early Childhood Education prepares you to teach young children between the ages of three and eight years of age. You must meet the criteria for selective admission and retention in Teacher Education, including a 2.75 g.p.a. in your major, in required professional education courses, and overall. Upon completion of the program and passing the Praxis II exams, you are eligible for an Ohio two-year provisional license in Early Childhood Education.

The Early Childhood Education program is offered jointly by the Colleges of Education and Health and Human Services, if you wish to be licensed through Ohio University to teach young children between the ages of three and eight years, you must complete the following program and earn passing scores on the Praxis II exams.

Required General Education Courses

Ohio requirements for teacher licensure state that you must complete a general studies program that includes the arts, communications, history, literature, mathematics, philosophy, sciences, and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University General Education Requirements (see Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier I quantitative skills courses that are required:

MATH 120*, 121, 122 Elementary Topics in Math (10 hrs min req'd)

Note: These math courses are recommended; however, any math courses numbered 120 or above and totaling 10 hours will be acceptable.

Specific Tier II courses that are required:

PSY 101	General Psychology	5
Select one course from the following American history or political science options:		
HIST 200	Survey of United States History 1600-1865	4
HIST 201	Survey of United States History 1865-present	4
POLS 101	American National Govt	4
POLS 102	Issues in American Politics	4
POLS 103	The U.S. in World Affairs	4

Biological Science requirement:

PBIO 100L	World of Plants	5
or BIOL 101	Principles of Biology	

Earth Science requirement:

GEOG 101	Physical Geography	5
or GEOL 101	Introduction to Geology	

Physical science requirement:

PSC 100 & 140	Survey of Astronomy & Lab	5
or PSC 100D & 140	Moons & Planets: the Solar System & Lab	
or PSC 101L	Physical World	
or PSC 105L	Color, Light & Sound	
or PHYS 201	Introduction to Physics	

Note: The three required science courses must each include a lab and must be from the above list.

Speech Requirement:

COMS 103	Fund. of Public Speaking	4
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Professional Requirements

You must earn a grade of C or better in all of the following courses.

HCCF 160	Intro to Child Development	4
HCCF 160A	Observing & Recording Young Childhood Behavior	3
HCCF 170	Intro to Early Childhood Ed	3
HCCF 260	Diversity in Early Childhood Education	3
HCCF 260L	Clinical: Diversity and Awareness	1
HCCF 361	Guidance and Classroom Management in EC Ed	3
HCCF 361L	Clinical: Guidance and Classroom Mgt	1
HCCF 363	Creative Experiences in Early Childhood	4
HCCF 363L	Clinical: Creative Experiences	1
EDEC 206	Introduction to Integrated Curriculum	4
EDSP 271	Intro to Education of Exceptional Children	4

Admission to professional education is required to take the following courses:

HCCF 371	Family Development	3
EDCT 203	Technological Applications in Education	4
EDTE 220	Phonics	5
EDTE 371C	Instructional Adaptations for Learners with Exceptionalities	4
EDEC 225	Emergent Reading and Literacy	4

After admission to advanced standing, take the following:

HCCF 455	Curriculum & Teaching Strategies in EC	4
HCCF 455L	Clinical: Curriculum & Teaching Strategies	2
HCCF 463	Preschool Admin.	3
HCCF 465	Parent Education	3
HCCF 467	Philosophy & Theories of Child Development	3
EDEC 319	Reading & Literature in EC Classrooms	5
EDEC 330	Teaching Young Children Mathematics	4
EDEC 330L	Clinical: Lab with EDEC 330	1
EDEC 340	Teaching Science for Young Children	4
EDEC 340L	Clinical: Lab with EDEC 340	1
EDEC 350	Teaching Social Studies in Early Childhood	3
EDEC 350L	Clinical: Lab with EDEC 350	1
EDEC 421	Observing Children for Reading Strategies & Skills	2
EDEC 421L	Clinical: Observing Children for Reading Strategies & Skills	2

Related requirements:

HCFN 128	Intro to Nutrition	4
NRSE 303	Health & Safety in EC	3
PESS 270	Teaching of Physical Ed	3

Primary Student Teaching

(apply by Dec. 1, one year in advance)

Take three courses concurrently:

EDPL 458	Student Teaching	7
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EDPL 459	Student Teaching	6
EDPL 465	Student Teaching	3

Pre-School Student Teaching

(apply by one year in advance in Grover Center W 324)

HCCF 474	Early Childhood Student Teaching	6
HCCF 400	Early Childhood Seminar	3

Middle Childhood Education Programs

To receive a B.S.Ed. in Middle Childhood Education, you must complete a program of coursework and achieve passing scores on the Praxis II exams prior to licensure. The program includes coursework well distributed over two academic concentrations. Academic concentrations may be chosen in language arts, mathematics, science and social studies. These will be the two subjects you are licensed to teach in grades 4-9. Upon completing the program and achieving passing scores on the Praxis II exams, you are eligible for a two-year provisional teaching license for grades 4-9 in those areas.

Required General Education Courses

You are required to fulfill Ohio University's General Education Requirements. Some concentrations include courses that are also required Tier courses. To avoid taking unnecessary courses, it is important that you meet with your advisor when planning your schedule.

Admission to professional education requires a grade of C or better in the following courses:

PSY 101	General Psychology	5
Tier I Math		4 or 5
COMS 103	Fund. of Public Speaking	4
Tier I English		5
EDTE 150	Intro to Teacher Ed.	4

Reminder: All students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available in the Office of Student Services, McCracken Hall 124.

Professional requirements

All professional courses are taught with a middle childhood focus. The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Develop.	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Education	2
EDCT 203	Technological Appls. in Education	4
EDCS 301	Educ. and Cult. Diversity	3
EDCS 301L		1
EDTE 371A	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400 (Tier III equiv)	School, Society, and the Professional Educator	4

All middle childhood majors take the following two courses:

EDMC 300	Middle Childhood Instr. Process and Curriculum	4
EDMC 301	Middle Childhood Educ. and Curriculum	5

Two methods courses are required, one in each of the two concentrations chosen:

EDMC 310	Teaching Lang. Arts in Middle Childhood Grades	4
EDMC 310L	Clinical Experience with EDMC 310	1
EDMC 330	Teaching Mathematics in Middle Childhood Grades	4
EDMC 330L	Clinical Experience with EDMC 330	1
EDMC 340	Teaching Sci. in Middle Childhood Grades	4
EDMC 340L	Clinical Experience with EDMC 340	1

EDMC 350	Teaching Soc. Studies in Middle Childhood Grades	4
EDMC 350L	Clinical Experience with EDMC 350	1

Required reading core: 18

A grade of C or better is required in each course in the required reading core, EDMC 300, 301, 360, and methods courses.

EDTE 220	Phonics and the Structure of Language	5
EDTE 325	Literature-Centered Dev. Reading Instruction	5
EDTE 420	Teaching Reading in the Content Area	4
EDTE 421	Foundations of Reading Instruction, Diagnosis, and Remediation	4

Student Teaching

EDPL 461	Student Teaching in Middle Childhood	7
EDPL 462	Student Teaching in Middle Childhood	6
EDPL 465	Student Teaching Sem.	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach. All student teaching and early field experiences must be completed in grade levels associated with the state's definition of middle childhood (fourth grade through ninth grade). For further information, contact the Office of Student Services, McCracken Hall 124.

Major Requirements

Select two concentrations from the following four areas. Some of these courses are Tier II classes. Note that some of these courses have prerequisite requirements. Consult with your faculty advisor if you have questions.

Language Arts Concentration

EDMC 321	Adolescent Literature	4
ENG 200	Introduction to Literature	4

Select two courses from:

ENG 201	Critical Approaches to Fiction	4
ENG 202	Critical Approaches to Poetry	4
ENG 203	Critical Approaches to Drama	4

Select one course from:

ENG 321	American Literature to 1865	4
ENG 322	American Literature from 1865-1918	4
ENG 323	American Literature 1918 to Present	4

Select one course from:

ENG 351	History of the English Language	4
ENG 352	Development of American English	4
LING 270	Nature of Language	5

Select one course from:

JOUR 133	Precision Language	4
ENG 350	Traditional Grammar	4

Select one course from:

ENG 325	Women and Literature	4
ENG 327	African American Fiction	4
ENG 328	African American Poetry	4
ENG 329	African American Drama	4

Select one course from:

ENG 280	Exp. Writing and Research	4
ENG 361	Creative Writing: Fiction	4
ENG 362	Creative Writing: Poetry	4
ENG 363	Creative Writing: Nonfiction	4

Select two courses from:

COMS 101	Fund. of Human Communication	4
COMS 205	Group Discussion	4
COMS 220	Oral Interpretation of Lit.	4
THAR 113	Acting Fundamentals I	4

Mathematics Concentration

MATH 120	Elem. Topics in Math.	4
MATH 121	Elem. Topics in Math.	4
MATH 122	Elem. Topics in Math	3
MATH 211	Elem. Linear Algebra	4
MATH 263*A,B	Calculus	8
MATH 300	History of Mathematics	4
MATH 306	Found. of Mathematics I	4
MATH 330A	Found. of Geometry	4
	Electives at the 200 level or above	4

*Depending on a student's result on the math placement test given at precollege orientation, additional courses beyond those listed in the concentration area may be required. Be sure to check with your advisor to see if any prerequisites for required math courses need to be taken.

Science Concentration

CHEM 121	Prin. of Chemistry I	4
CHEM 122	Prin. of Chemistry II	4
GEOG 201	Environ. Geography	4
PHIL 216	Philosophy of Sci. Survey	3
PHYS 201	Intro to Physics	5
PBIO 103 or PBIO 100L	Plants and People	4
	The World of Plants	5
PBIO 115	Plant Structure and Development	4

Select one course from:

GEOL 101	Intro to Geology	5
GEOL 215	Environmental Geology	4
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4

Select one course from:

ASTR 100 or PSC 100	Survey of Astronomy	4
ASTR 100D or PSC100D	Moons and Planets: The Solar System	4

Social Studies Concentration

ANTH 101	Intro to Cultural Anthro.	5
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin of Macroeconomics	4
GEOG 121	Human Geography	4
GEOG 201	Environmental Geog.	4
HIST 133	Intro to Non-West/Cultural	4
HIST 200	Amer. Hist. to 1865	4
HIST 201	Hist. of the U.S., 1865 to the Present	4
POLS 101	Amer. National Govt.	4
POLS 150	Current World Problems	4
SOC 201	Contemp. Social Problems	4

Special Education-Intervention Specialist Programs K-12

To receive a B.S.Ed. in Special Education and licensure as an Intervention Specialist, you must complete one of the professional preparation programs for teaching students with special needs and receive passing scores on the Praxis II exams. Students should also consult the Special Education program sheets (available on the Web) and meet with their advisor about scheduling as early as possible.

Students who seek admission into Special Education courses will be subject to additional selective admission criteria beyond the College of Education's Selective Admission and Retention requirements. Enrollment in these programs is limited to promote quality instruction, appropriate field placement, and effective advising. The selective admission process into Special Education includes application for admission to Professional Education, review of your academic

record, and your autobiography. Admission applications are available on the web and should be returned to the special education coordinator. Applications should be submitted for review the third quarter of your freshman year, or soon thereafter. The application deadline is April 15, to allow for review of applications prior to Fall Quarter pre-registration.

Specific information about programs in hearing and speech is included under the College of Health and Human Services section of this catalog.

**Special Education-Intervention Specialist:
Mild-Moderate Educational Needs
Major code BS6316**

Required General Education Courses

Humanities: 8

EDTE 150	Intro to Teacher Ed.	4
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Eight hours of humanities are required. Select from courses which meet the Tier II Humanities and Fine Arts requirements.

Natural Sciences: 5

Five hours of natural sciences containing a laboratory component are required. Select courses in natural science which meet Tier II Natural Sciences and Mathematics requirement.

Social Science: 8

Eight hours of social sciences are required. Select from courses which meet the Tier II Social Sciences requirement.

Psychology: 9

PSY 101	General Psychology	5
PSY 120	Elem. Stat. Reasoning	4
or PSY 221	Stat. for Behavioral Sciences	or 5

Communications: 4

COM5 103	Fund. of Public Speaking	4
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English: 9

ENG 151-153	Freshman Composition	5
ENG 305J-308J	Junior Composition	4

Fine Arts: 3

MUS 160	Music Fundamentals	or 4
or MUS 282	Music Therapy Activities	
or THAR 113	Acting Fundamentals	

Health: 4

HLTH 202	Health Sciences & Lifestyle	4
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Hearing and Speech Therapy: 5

HSS 108	Intro to Comm. Disorders	5
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Math: 8

MATH 120*	Elem. Topics in Math	4
MATH 121	Elem. Topics in Math	4

*Math 120 is recommended; however, any 4-hour math course numbered 120 or above is acceptable.

Physical Education & Recreation for Students with Disabilities: 4

PESS 335	Adapted Physical Education for Special Education	4
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You must also complete Ohio University's General Education Requirements. Consult with your advisor to plan to meet both sets of requirements.

Major Requirements

All students pursuing teacher education programs at Ohio University are subject to Selective Admission and Retention Requirements prior to taking any education courses.

Education: 15

EDCS 301	Cultural Diversity and Education	3
EDCS 301L		1
EDCS 400 (Tier III equiv)	School, Society, and the Professional Educator	4
EDEC 330	Teaching Math to Young Children	3
EDEC 330L	Field/Clinical in Teaching Math	1
EDSP 355	Technical Apps. in Special Education	4

Reading Core : 18

EDTE 220	Phonics & Struc. of Lang.	5
EDTE 325	Lit. Centered Reading Inst.	5
EDTE 420	Reading in the Content Area	4
EDTE 421	Reading Diagnosis & Assessment	4

Block I (sophomore year, fall or winter quarter): 15

(The first three of the following courses must be taken concurrently)

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Nature of Learners with Exceptionalities	3
EDTE 202	Field Experience in Typical and Exceptional Development	2
EDCT 203	Technological Applications in Education	4

Block II (junior year, fall quarter): 17

EDSP 260	Field Exp. with Special Education Needs	4
EDSP 373	Curr. Plan for Learners with Special Needs	4
EDSP 370	Classroom Management	4
EDSP 374	Learners w/ Mild-Mod. Educational Needs	5

Block III (junior year, winter quarter): 16

EDSP 360	Field Exp. with Mild-Mod. Educational Needs	4
EDSP 377	Career Dev., Tran. for Special Needs	4
EDSP 485	Diag. & Eval. of Children with Disabilities	4
EDTE 325*	Literature Centered Reading Instruction	5
Reading requirement.		

Block IV (junior year, spring quarter): 17

EDSP 460	Field Exp. with Mild-Mod. Educational Needs	4
EDSP 376	Methods for Learners with Mild-Mod. Needs	5
EDSP 401	Interventions for Emot. Behavior Needs	4
EDSP 477	Collaborate and Consult in Special Education	4

Professional Laboratory Experience (senior year): 16

EDPL 461, 462	Student Teaching	13
EDPL 465	Student Teaching Semester	3

These courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1 of the year prior to the year in which you plan to student teach. You must complete all education courses before you may student teach. For further information, contact the Office of Student Services, McCracken Hall 124.

**Special Education-Intervention Specialist:
Moderate to Intensive Educational Needs
Major code BS6317**

Required General Education Courses

Humanities: 8

EDTE 150	Intro to Teacher Ed.	4
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Eight hours of humanities are required. Select from courses which meet the Tier II Humanities and Fine Arts requirements.

Natural Sciences: 5

Five hours of natural sciences containing a laboratory component are required. Select courses in natural science which meet Tier II Natural Sciences and Mathematics requirement.

Social Science: 8

Eight hours of social sciences are required. Select from courses which meet the Tier II Social Sciences requirement.

Psychology: 9

PSY 101	General Psychology	5
PSY 120	Elem. Stat. Reasoning	4
or PSY 221	Statistics for Behavioral Sciences	or 5

Communications: 4

COMS 103	Fund. of Public Speaking	4
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English:		9
ENG 151-153	Freshman Composition	5
ENG 305J-308J	Junior Composition	4
Fine Arts:		3
MUS 160 or MUS 282 or THAR 113	Music Fundamentals Music Therapy Activities Acting Fundamentals	or 4
Health:		7
HLTH 202	Health Sciences and Lifestyle	4
PESS 227	First Aid	3
Hearing and Speech Therapy:		9
HSS 108	Intro to Comm. Disorders	5
HSS 378	Sign Language	4
Math: 4		
MATH 120*	Elem. Topics in Math	4
*Math 120 is recommended; however, any 4-hour math course numbered 120 or above is acceptable.		
Physical Education & Recreation for Handicapped:		4
PESS 335	Adapted Physical Education for Special Education	4

You must also complete Ohio University's General Education Requirements. Consult with your advisor to plan to meet both sets of requirements.

Minor Area of Concentration: 12

A 2.75 g.p.a. is required in the minor courses. Common minors include: art, early childhood, human and consumer sciences, music, physical education, political science, psychology, recreation therapy, residential services, vocational adult services, social work, sociology, hearing and speech sciences. Courses taken to complete General Education Requirements may not apply toward the minor area of concentration.

Major Requirements

All students pursuing teacher education programs at Ohio University are subject to Selective Admission and Retention Requirements prior to taking any education courses.

Education: 15

EDCS 301	Cultural Diversity and Education	3
EDCS 301L		1
EDCS 400 (Tier III equiv.)	School, Society, and the Professional Educator	4
EDEC 330	Teaching Math to Young Children	3
EDEC 330L	Field/Clinical in Teach. Math	1
EDSP 355	Technical Applications in Special Education	4

Reading Core: 18

EDTE 220	Phonics and Structure of Language	5
EDTE 325	Lit. Centered Reading Inst.	5
EDTE 420	Diagnosis of Reading Diff.	5
EDTE 421	Reading Laboratory Pract.	4

Block I (sophomore year, any quarter): 15

(The first three of the following courses must be taken concurrently)

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Nature of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Typical and Exceptional Development	2
EDCT 203	Technological Applications in Education	4

Block II (junior year, fall quarter): 17

EDSP 260	Field Exp. with Special Education Needs	4
EDSP 370	Classroom Management	4
EDSP 373	Curr. Plan for Learners with Special Needs	4
EDSP 473	Learners with Mod.-Int. Education Needs	5

Block III (junior year, winter quarter): 17

EDSP 361	Field Exp. with Mod.-Int. Educational Needs	4
EDSP 377	Career Dev. and Tran. for Special Needs	4

EDSP 485	Diag. & Eval. of Children with Disabilities	4
EDTE 325*	Literature-Centered Reading Instruction	5

*Reading requirement.

Block IV (junior year, spring quarter): 17

EDSP 461	Field Exp. with Mod.-Int. Educational Needs	4
EDSP 475	Methods for Learners with Mod.-Int. Educational Needs	5
EDSP 401	Interventions for Emot. Beh. Needs	4
EDSP 477	Collaborate & Consult in Special Education	4

Professional Laboratory Experience (senior year): 16

EDPL 461 and 462	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach. You must complete all education courses before you may student teach. For further information contact the Office of Student Services, McCracken Hall 124.

Adolescent-Young Adult Education Programs

The following professional and general requirements apply to all adolescent-young adult majors. Individual majors are listed alphabetically in the following pages.

Professional Requirements for Adolescent-Young Adult

The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Typical and Exceptional Student Dev.	2
EDCT 203	Technological Appls. in Education	4
EDCS 301	Cultural Diversity and Education	3
EDCS 301L		1
EDTE 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400 (Tier III equiv.)	School, Society, and the Professional Educator	4
EDSE 350	Secondary School Planning and Instruction	4
EDSE 351	Instructional Processes and Curriculum	5
	Methods in Major Field	4-8

You may enroll in 200-level courses after admission to professional education.

You may enroll in 300- and 400-level courses after admission to advanced standing.

Student Teaching

EDPL 463 and 464	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach.

Required General Education Courses (45 hours)

In addition to the following program requirements, you also must complete Ohio University's General Education Requirements. Consult with your advisor to plan a course of study that will meet both sets of requirements.

You must meet departmental prerequisites for all classes if you are seeking licensure. For example, you must take and pass PSY 101 with a minimum grade of C before taking any 200 level education course.

If the courses in each field do not add up to a total of 45 hours, you must elect sufficient hours in one or a combination of the following areas to bring the total hours in general education courses to 45 hours.

If your major is the same as one of the areas below, 10 hours of the major may be counted toward the corresponding general education field as well as the major. For example, if your major is integrated language arts, 10 hours of English may count toward the 45-hour total of general education courses and toward Field 4, below, which is English and/or Foreign Language.

No more than six hours of PED activity courses may be counted toward the degree except for majors in physical education, and none may count toward general education.

Admission to professional education requires a grade of C or better in the following courses:

PSY 101	General Psychology	5
Tier I Math		4 or 5
COMS 103	Fund. of Public Speaking	4
Tier I English		5
EDTE 150	Intro to Teacher Ed.	4

Reminder: All students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available in the Office of Student Services, McCracken Hall 124.

Science and Mathematics

You are required to complete at least one course in science and one course in mathematics. Appropriate science courses are astronomy, chemistry, physics, plant biology, biological science, physical science, geological sciences, and PSY 226, 312, and 314. Any course in the Department of Mathematics, except 101, 102, or 320L, is acceptable for the mathematics requirement. Also, all Tier I quantitative skills courses count toward the mathematics requirement. Computer science courses do not satisfy this requirement.

Interdisciplinary Arts and/or Philosophy

You are required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Department of Philosophy (except PHIL 120) or School of Interdisciplinary Arts; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History; Art except for ART 360, 461, 461L, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.

Social Sciences

You are required to complete at least two courses in social sciences. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social sciences courses. Other possibilities include any course in anthropology, economics, history, political science, sociology, social work, geography, and psychology, except PSY 120, 226, 275, 312, and 314.

English and Speech

You are required to complete at least three courses in English and speech. Freshman and junior English composition are required courses taken to satisfy the University English composition requirement (see General Education Requirements section) and will be used toward completion of these hours.

Life Science

Major code BS6314

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach life science as the major field, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach life science in grades 7–12 inclusive.

See also the integrated science major in this section.

Methods Courses

EDSE 440	Teaching of Biology Secondary School Science Methods	4
EDSE 440L	Field Experience Secondary School Science Teaching Lab	2 1

Adolescent-young adult education professional and general education requirements must also be completed.

Major Requirements:

BIOS 170	Intro to Zoology	5
PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
BIOS 171	Intro to Zoology	5
BIOS 172	Intro to Zoology	3
BIOS 173	Intro to Zoology	1
PBIO 211	Diversity of Life	5
BIOS 221 and 222 or BIOS 321	Basic Microbiology and Lab General Microbiology	6 or 5
BIOS 325 or PBIO 331	General Genetics Plant Genetics	5
PBIO 210	Plant Physiology	4
BIOS 275 or PBIO 209	Ecology in the 21st Century Plant Ecology	4 or 4
BIOS 203,204 or BIOS 303 or BIOS 320	Human Biology II Comparative Vertebrate Anatomy Fundamentals of Animal Cell Bio.	5 4
BIOS 330 or PBIO 475	Principles of Evolution Plant Speciation and Evolution	4 or 3
BIOS 376	Field Ecology	4
PBIO 427 or PBIO 450	Molecular Genetics Biotechnology and Genetic Engineering	3 or 4
CHEM 121, 122, 123**	Principles of Chemistry	12
PHYS 201, 202, 203	Intro to Physics	15
MATH 113	Algebra	5
MATH 115 or MATH 163A	Precalculus Intro to Calculus	5 or 4
PSY 221	Stats for the Beh. Sci.	5
PHIL 216	Philosophy of Science	3
GEOL 101	Intro to Geology	5
GEOL 255 or GEOL 221	Historical Geology Earth and Life History	4

*Request permission from Biology Department to substitute PBIO 331 as prerequisite.

**Before selecting a chemistry sequence, check with an advisor in the College of Education. Some other programs require CHEM 151, 152, and 153 in place of CHEM 121, 122, and 123.

Earth Science

Major code BS6315

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach earth science as a major field, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach earth science in grades 7–12 inclusive.

See also the integrated science major in this section.

Methods Courses

EDSE 440	Secondary School Science Methods	4
EDSE 440L	Secondary School Science Teaching Lab	1

Adolescent-young adult education professional and general education requirements must also be completed.

Major Requirements

CHEM 121, 122, 123	Principles of Chemistry	12
GEOG 101	Physical Geography	5
GEOG 201	Environ. Geography	4
GEOG 302	Meteorology	5
GEOL 101	Intro to Geology	5
GEOL 211	Oceanography	4
GEOL 255	Historical Geology	4

GEOL 312	Earth Materials	4
GEOG 315 or GEOL 330	Landforms and Landscapes Geomorphology	5
GEOL 340	Prin. of Paleontology	4
GEOL 446 or GEOL 466	Earth Systems Evolution Geodynamics: The Earth's Interior	4
PBIO 103 or BIOS 100	Plants and People The Animal Kingdom	4
PHIL 216	Philosophy of Science	3
PHYS 201, 202, 203	Introduction to Physics	15
PSC 100D	Moons and Planets: The Solar System	4
PSC 140	Astronomy Lab	1
PSY 120 or MATH 250 or GEOL 205	Elem. Stat. Reasoning Intro to Prob. and Stats. Stat. Methods in Geology	4

Integrated Language Arts

Major code BS6306

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated language arts, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach integrated language arts in grades 7–12.

Methods Courses

ENG 451, 451L	Teaching Lang. and Comp.	4
ENG 452, 452L	Teaching Literature	4

Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements

ENG 325	Women and Literature	4
ENG 356	Young Adult Literature	4
ENG 453	World Literature	4
COMS 101	Fund. of Human Comm.	4
COMS 205	Group Discussion	4
COMS 215	Argumentative Analysis and Advocacy	4
JOUR 133	Precision Language	4
JOUR 221	Graphics of Comm.	5
JOUR 231	News Writing	4
JOUR 411	Newspaper and Communication Law	3
THAR 150	Viewing Performance	2

Select two of the following:

ENG 201	Critical Appr. to Fiction	4
ENG 202	Critical Appr. to Poetry	4
ENG 203	Critical Appr. to Drama	4

Select one of the following:

ENG 301	Shakespeare: Histories	4
ENG 302	Shakespeare: Comedies	4
ENG 303	Shakespeare: Tragedies	4

Select one of the following:

ENG 311	English Lit. to 1500	4
ENG 312	English Lit. 1500–1660	4
ENG 313	English Lit. 1660–1800	4
ENG 314	English Lit. 1800–1900	4
ENG 315	English Lit. 1900–Present	4
ENG 321	Amer. Lit. to 1865	4
ENG 322	Amer. Lit. 1865–1918	4
ENG 323	Amer. Lit. 1918–Present	4

Select one of the following:

ENG 327	African-Amer. Fiction	4
ENG 328	African-Amer. Poetry	4
ENG 329	African-Amer. Drama	4

Select one of the following:

ENG 351	History of the Engl. Lang	4
ENG 352	The Development of American English	4
ENG 353	The Structure of American English	4

Integrated Mathematics

Major code BS6307

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated mathematics, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional high school license that qualifies you to teach integrated mathematics in grades 7–12 inclusive.

Methods Course

MATH 320L	Teaching of Math in Secondary School	5
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Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements

MATH 150	Finite Math	4
MATH 211	Elem. Linear Algebra	4
MATH 250	Intro to Prob. and Stats. I	4
MATH 251	Intro to Prob. and Stats. II	4
MATH 263 A, B, C, D	Calculus	16
MATH 300	History of Mathematics	4
MATH 306	Found. of Mathematics	4
MATH 307	Intro to Number Theory	4
MATH 314	Elem. Abstract Algebra	4
MATH 330A, B	Found. of Geometry	8

Integrated Science

Major code BS6309

Regardless of the college or university from which you graduate, if you wish to be licensed through Ohio University to teach integrated science as the major field, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach integrated science in grades 7–12 and high school core science courses.

You must complete adolescent-young adult education professional and general education requirements in addition to the major requirements. Information about these requirements is available in Student Services, McCracken 124.

Methods Course

EDSE 440	Secondary School Science Methods	4
EDSE 440L	Secondary School Science Teaching Lab	1

Major Requirements:

BIOS 100	The Animal Kingdom	4
BIOS 103	Human Biology	5
BIOS 220	Conservation and Biodiversity	4
BIOS 221	Basic Microbiology	4
BIOS 203,204	Human Biology II	5
BIOS 275 or PBIO 209	Ecology in the 21st Century Plant Ecology	4
BIOS 330 or PBIO 475	Principles of Evolution Plant Speciation and Evolution	4
CHEM 121, 122, 123	Prin. of Chemistry	12
GEOG 315 or GEOL 330	Landforms and Landscapes Prin. of Geomorphology	5
GEOL 101	Intro to Geology	5
GEOG 101	Physical Geography	5

GEOL 120	The Mobile Earth	4
GEOL 205 or GEOG 271 or PSY 120 or MATH 250	Statistical Meth. in Geol. Intro to Stats. in Geog. Elem. Stat. Reasoning Intro to Prob. and Stats. I	4 or 5 or 4
GEOL 211	Intro to Oceanography	4
GEOL 255	Historical Geology	4
GEOL 312	Earth Materials and Resources	5
MATH 113	Algebra	5
MATH 115	Pre-Calculus	5
PBIO 103 or PBIO 109	Plants and People Americans and Their Forests	4
PBIO 114	Cell. Foundations of PBIO	5
PHIL 216	Phil. of Science Survey	3
PHYS 201, 202, 203	Intro to Physics	15
PSC 100D or PSC 100	Moons and Planets: The Solar System Survey of Astronomy	4

*Request permission from the geography department to substitute GEOL 101 as a prereq.

Integrated Social Studies

Major code BS6308

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated social studies, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach integrated social studies in grades 7–12 inclusive.

Methods Course

EDSE 479	Teaching. Social Science in Jr. and Sr. HS	4
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Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements: 94

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
GEOG 101	Physical Geography	5
GEOG 121	Human Geography	4
HIST 101 or HIST 121	Western Civ in Modern Times Western Heritage: Class. Age	4
HIST 102 or HIST 122	Western Civilization in Modern Times Western Heritage: Medieval Legacy	4
HIST 133	Intro to Non-West/Cultural.	4
HIST 200	American History to 1865	4
HIST 201	Am. Hist. 1865-present	4
HIST 317A	Ohio History to 1851	4
HIST 317B	Ohio History Since 1851	4
HIST 323A	Latin American History: The Colonial Era	4
HIST 329B or HIST 329C	Ancient Greece Ancient Rome	4
POLS 101	American National Govt.	4
POLS 102	Issues in American Politics	4
POLS 230	Comparative Politics	4
POLS 250	International Relations	4
POLS 304 ¹	State Politics	4
POLS 320 ¹	Urban Politics	4
POLS 301 ¹	The Politics of Law	4
POLS 405 ¹	American Political Parties	4
PSY 120	Elem. Stat. Reasoning	4
SOC 101	Intro to Sociology	5

¹An approved list of substitutions is available from the Student Services Office.

Physical Science (Chemistry and Physics)

Major code BS6310

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach physics and chemistry as major fields, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach physics and chemistry in grades 7–12 inclusive.

See also the integrated science major in this section.

Methods Courses

EDSE 440	Secondary School Science Methods	4
EDSE 440L	Secondary School Science Teaching Lab	1

Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 325	Instrumental Methods of Analysis	4
CHEM 476	Modern Inorganic Chem.	4
CHEM 489	Basic Biochemistry	4
GEOL 101	Intro to Geology	5
GEOL 255 or GEOL 221	Historical Geology Earth and Life History	4
MATH 263A, B, C	Calculus	12
MATH 340	Differential Equations	4
MATH 250 or PSY 120	Intro to Prob. and Stats. I Elem. Stat. Reasoning	4
PBIO 114 or BIOS 170	Cell. Foundations of PBIO Intro to Zoology	5 or 5
PHIL 216	Philosophy of Science	3
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	3
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8

Multi-Age Education Programs

The following professional and general requirements apply to all multi-age education majors. Individual majors (Modern Languages, Music, and Physical Education) are listed in the following pages.

Admission to professional education requires a grade of C or better in the following courses:

PSY 101	General Psychology	5
Tier I Math		4 or 5
COMS 103	Fund. of Public Speaking	4
Tier I English		5
EDTE 150	Intro to Teacher Ed.	4

Reminder: All students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available in the Office of Student Services, McCracken Hall 124.

Professional Requirements for Multi-Age Programs:

The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Char. of Learners with Exceptionalities	3

EDTE 202	Field Exp. in Typical and Exceptional Student Dev.	2
EDCT 203	Technological Appls. in Education	4
EDCS 301	Cultural Diversity and Education	3
EDCS 301L		1
EDTE 3718	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400 (Tier III equiv)	School, Society, and the Professional Educator	4
EDSE 350	Secondary School Planning and Instruction	4
EDSE 351	Secondary School Teaching and Learning	5

*Multi-age physical education majors have a different set of general education requirements which are listed with physical education methods and major requirements.

Student Teaching

EDPL 461 and 463	Student Teaching	13
EDPL 465	Stu Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach

Required General Education Courses (45 hours)

In addition to the following program requirements, you also must complete Ohio University's General Education Requirements. Consult with your advisor to plan a course of study that will meet both sets of requirements.

You must meet departmental prerequisites for all classes if you are seeking licensure. For example, you must take and pass PSY 101 with a minimum grade of C before taking any 200 level education course.

If the courses in each field do not add up to a total of 45 hours, you must elect sufficient hours in one or a combination of the following areas to bring the total hours in general education courses to 45 hours.

If your major is the same as one of the areas below, 10 hours of the major may be counted toward the corresponding general education field as well as the major. For example, if your major is integrated language arts, 10 hours of English may count toward the 45-hour total of general education courses and toward Field 4, below, which is English and/or Foreign Language.

No more than six hours of PED activity courses may be counted toward the degree except for majors in physical education, and none may count toward general education.

Science and Mathematics

You are required to complete at least one course in science and one course in mathematics. Appropriate science courses are astronomy, chemistry, physics, plant biology, biological science, physical science, geological sciences, and PSY 226, 312, and 314. Any course in the Department of Mathematics, except 101, 102, or 320L, is acceptable for the mathematics requirement. Also, all Tier I quantitative skills courses count toward the mathematics requirement. Computer science courses do not satisfy this requirement.

Interdisciplinary Arts and/or Philosophy

You are required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Department of Philosophy (except PHIL 120) or School of Interdisciplinary Arts; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History; Art except for ART 360, 461, 461L, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.

Social Sciences

You are required to complete at least two courses in social sciences. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social sciences courses. Other possibilities include any course in anthropology, economics, history, political science, sociology, social work, geography, and psychology, except PSY 120, 226, 275, 312, and 314

English and Speech

You are required to complete at least three courses in English and speech. Freshman and junior English composition are required courses taken to satisfy the University English composition requirement (see General Education Requirements section) and will be used toward completion of these hours.

Modern Languages

French — Major code BS6232

Spanish — Major Code BS6235

German — Major Code BS6233

Regardless of the college of the university from which you graduate, to be licensed through Ohio University to teach one of the modern foreign languages you must complete the following program and earn passing scores on the Praxis II exams. This program prepares you for licensure to teach French, German, or Spanish in grades Pre-K-12. Spanish majors will be required to pass an oral proficiency examination in the major before licensure.

You should meet regularly with faculty members in the Department of Modern Languages.

Methods Courses

ML 410	Language Lab	4
ML 435	Teaching Modern Languages in Elem. Sch.	4
ML 445	Teaching of Modern Foreign Languages	4

Adolescent-young adult education professional and general education requirements must be completed.

Major Requirements—French: 72

FR 111, 112, 113	Beginning	12
FR 211, 212, 213	Intermediate	12
FR 341, 342, 343	Adv. Conv. and Comp.	12
FR 348 or 349	Civ. and Culture	4
FR 354	Intro to French Lit.	4

Choose two courses from:

FR 345, 355, and 356	Literature	8
FR 437	Phonetics	4
FR 440	Teaching French	4
FR 439 or FR 441	Modern Usage Stylistics	4

Additional electives at 400 level or above 8

60 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

Major Requirements—Spanish: 72

SPAN 111, 112, 113	Beginning	12
SPAN 211, 212, 213	Intermediate	12
SPAN 341, 343	Adv. Conv. and Comp.	8
SPAN 348	Civ. and Culture	4

One course from

SPAN 349, 350, 351, 352		4
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Two courses from:

SPAN 345, 354, 355, or 356	Intro to Literature	8
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Three courses from the following, with at least one in each area: 12

Spanish Linguistics:
SPAN 437, 438, 439, 441

Spanish American Content:
SPAN 443, 444, 447, 448

Spanish Content:
SPAN 425, 427, 429, 432, 453, 454, 455, 458

Span 440	Teaching Spanish	4
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Additional elective at 400 level or above 8

60 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

Major Requirements—German: 68

GER 111, 112, 113	Beginning	12
GER 211, 212, 213	Intermediate	12
GER 341, 342, 343	Adv. Conv. and Comp.	12
GER 348 or 349	Civ. and Culture	4
GER 355, 356	Intro to Literature	4
GER 439	Modern Usage	4
GER 441	Stylistics	4

Additional electives at 400 level or above 12

56 hours are required for students who place into 211; 44 hours are required for students who place into 341.

Study abroad is highly recommended.

Physical Education**Major code BS6312**

Regardless of the college of the university from which you graduate, to achieve licensure through Ohio University to teach physical education, you must complete the following program and earn passing scores on the Praxis II exams. This program leads to a two-year provisional license in physical education allowing you to teach physical education in grades Pre-K–12 inclusive.

If you are interested in majoring in physical education, you are encouraged to meet with advisors in both the College of Education and the School of Recreation and Sports Sciences in the College of Health and Human Services. These courses are offered in a yearly sequence, so pay close attention when you are scheduling.

Required General Education Courses

You are required to fulfill Ohio University's general education requirements (Tier I, II, III). Note that some courses in the teaching field simultaneously fulfill Tier II requirements, such as:

BIOS 302's prerequisite of BIOS 103 or BIOL 101 fulfill Tier II Natural Science and Math;

HCCF 160 fulfills Tier II Social Sciences;

HLTH 202 fulfills Tier II Applied Science and Technology.

Admission to professional education requires that you complete the following courses with a grade of C or better in each:

PSY 101	General Psychology	5
COMS 103	Fundamentals of Public Speaking	4

Tier I Math

Tier I English

EDTE 150	Intro to Teacher Ed.	4
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Methods Courses

All courses must be completed with a grade of C or better.

PESS 310	Prin., Theories, & Methods of Teaching Early Childhood Physical Education	6
PESS 330	Prin., Theories, & Methods of Teaching Middle Childhood Physical Education	6
PESS 370	Prin., Theories, & Methods of Teaching Adol. & Young Adult Physical Education	6

Multi-age physical education professional requirements must also be completed.

Major Requirements: 65 min.

All courses must be completed with a grade of C or better.

Professional Core:**14 hours**

PESS 126	Skill and Fitness Development in Physical Education	4
PESS 202	Intro. to Teaching Phys. Ed.	4
PESS 227	First Aid: Workplace training	3
HLTH 202	Health Sciences & Lifestyle Choices	4
PESS 204	Hist. and Prin. of Phys. Ed.	4
PESS 205	Movement Skills, Rhythms, & Dance in Phys. Ed.	3
PESS 212	Intro to Coaching	3
PESS 240A	Sports & Games I	4
PESS 240B	Sports & Games II	4
PESS 302	Biomechanics	4
PESS 333	Adapted Phys. Ed.	4
PESS 345	Intro to Exercise Physiology	4
PESS 405	Motor Learning	4
PESS 409	Assessment in PE & Sport	4
BIOS 203	Human Biology II: Essentials of Anatomy and Physiology	4
BIOS 204	Lab: Functional Anatomy	1
HCCF 160	Intro. to Child Development	4
REC 291	Outdoor Pursuits	3

Aquatics requirement: select one of the following courses (2-3 hours):

PESS 104	Intermediate Swimming	2
or PESS 218	Lifeguard Training	
or PESS 220	Water Safety for Instructors	or 3

Russ College of Engineering and Technology

<http://www.ohio.edu/engineering/>

Stocker Center

Dennis Irwin
Dean

Angie Bukley
*Interim Associate Dean
for Research and Graduate Studies*

Ken Sampson
Associate Dean for Academics

Marty North
*Assistant Dean for Career and
Outreach Programs*

The Fritz J. and Dolores H. Russ College of Engineering and Technology offers degree programs through the School of Electrical Engineering and Computer Science and the Departments of Chemical Engineering, Civil Engineering, Industrial and Manufacturing Systems Engineering, Mechanical Engineering, Aviation, and Industrial Technology. Engineering curricula are focused on the engineering profession, in which a knowledge of the mathematical and natural sciences—gained by study and experience—is applied to develop ways to use economically the materials and forces of nature for the benefit of society and the environment. Graduates have both the theoretical and practical training to begin a professional career or continue advanced work at the graduate level. Program flexibility is provided through technical electives so students can concentrate their studies in a chosen area or use the electives in other areas.

Education and University-based research and development in engineering and technology are vital to the future. Today's students are preparing for careers in some of the most exciting, promising, and critical of all modern undertakings. During the past 20 years, the Russ College of Engineering and Technology has accelerated toward the forefront in providing the leadership required to meet such challenges. Within its framework, aggressive learners can acquire the specific knowledge for a successful career, and individual talents can be adapted to preferences among the college's eight undergraduate programs.

The Russ College of Engineering and Technology was originally founded in 1935 as the College of Applied Sciences, but its origins date back to the earliest history of Ohio University; records show that surveying was among the first courses offered. The first engineering degree was granted in 1902. In 1985 the college moved into the C. Paul and Beth K. Stocker Engineering and Technology Center, and the Francis J. Fuller Aviation Training Center and Avionics Engineering Center hangar were completed in 1989.

In 1994, the college was renamed the Fritz J. and Dolores H. Russ College of Engineering and Technology and an 18,000-square-foot addition to Stocker Center was completed, providing additional laboratory space for undergraduate and graduate study and for multidisciplinary research. In 1996 the Konneker Research Laboratory was opened for expanded research in biotechnology. Two new facilities recently opened, one for advanced pavement research and one for advanced research in corrosion.

In 1996 the Board of Trustees established the Robe Leadership Institute in the Russ College to promote and encourage effective leadership among the students, faculty, and administrators. Currently, a Leadership

Seminar in Engineering is available to seniors and graduate students in the College together with a Leadership Resource Center, named after Gerald Loehr, for materials and references on leadership. The institute sponsors leadership awards for students, faculty, and staff of the college.

All engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore MD, 21202-4015—telephone: (410) 347-7700. The computer science program is accredited by the Computing Accreditation Commission of ABET.

The industrial technology program is accredited by the National Association of Industrial Technology, and the aviation curriculum is approved by the Federal Aviation Administration.

Admission and Transfer Requirements

Recent high school graduates, or transfer students who have earned less than 30 quarter hours (or 20 semester hours) of credit at another accredited collegiate institution, may be admitted directly to an engineering program or computer science if they meet the general requirements for admission to Ohio University and have completed four years of college-prep math, and one year each of chemistry and physics. For the industrial technology and aviation programs, there are no admission requirements above the general University requirements.

Transfer students who have earned more than 30 quarter hours (or 20 semester hours) of credit at another accredited collegiate institution may be admitted directly to an engineering program or computer science if they meet the general requirements for transfer students, including a g.p.a. greater than 2.5.

Students who wish to transfer into an engineering program or computer science must have earned a C or better in a math course and a science course. The math course must be equivalent to Math 113 or higher. The science course must be equivalent to Chemistry 121 or higher or Physics 251 or higher. For the industrial technology and aviation programs, there are no admission requirements above the general University requirements for transfer students.

Students enrolled at any Ohio University campus who wish to transfer into any program in the Russ College cannot do so if they would be on academic probation after transferring into that major. The probation rules for Russ College are stricter than those for the University as a whole. In order to not be on probation, a student must have a g.p.a. of 2.0 or higher for all courses taken, for all courses taken in the Russ College, and for all courses taken in the intended major. Students must also have successfully completed all required courses in three attempts and have no required course that they've attempted twice without success.

Academic Requirements

Advising and Program Planning

Indicate your choice of discipline on the official application for admission to the University to assure the assignment of a faculty advisor in the department of your choice. If you have not decided upon a specific major within the college (major code ND0910), the associate dean for academics or the appropriate designate will serve as your advisor until you choose a major. Course requirements for the freshman year in each of the engineering departments within the Russ College of Engineering and Technology are similar. Hence, while it is desirable to indicate a specific major field of study earlier, you can defer a decision on a specific major field of study until the beginning of your sophomore year.

After completing one of the engineering degree programs in the Russ College of Engineering and Technology, you are qualified and encouraged to seek, by examination, registration as a professional engineer from the Board of Registration for Professional Engineers of the state where you intend to practice. It is to your advantage to take the examination during the spring quarter closest to the expected time of graduation or as soon after graduation as possible.

With careful planning you may, in addition to the Bachelor of Science degree from this college, obtain a second degree or a minor from another college in the University. (See "A Second Bachelor's Degree" in the University-Wide Graduation Requirements section.)

Marietta College and the Russ College of Engineering and Technology at Ohio University have agreed to participate in an alliance that will provide opportunities for students studying at either school to pursue engineering degrees not currently offered at their respective schools. This will be accomplished through a binary program that offers students the opportunity to earn a degree from each institution in disciplines to be formally decided upon by each respective school. See the associate dean for academics for details.

Graduate programs leading to the M.S. degree are available in all of the engineering programs and in computer science. In addition, graduate work leading to the Ph.D. degree is available in chemical engineering, electrical engineering, and an inter-disciplinary program in integrated engineering. These programs are described in detail in the *Graduate Catalog*.

Degree Requirements

As a candidate for a degree in the Russ College of Engineering and Technology, you must satisfy all of the curriculum requirements that are applicable toward a degree in your particular field as specified on the following pages. You must earn a minimum of 36 quarter hours applicable toward your degree after entering one of the degree programs. You must also complete 50 percent of the course work applicable to your degree while in residence at Ohio University. In addition, you must:

- 1 Have a 2.0 (C) average on all courses attempted which are applicable toward a degree.
- 2 Have a 2.0 (C) average on all courses attempted in the Russ College of Engineering and Technology that are applicable toward a degree.
- 3 Have a 2.0 (C) average on all courses attempted in the major area of study that are applicable toward a degree.
- 4 Successfully complete a course by the end of the third enrollment in that course. "Enrollment" includes classes in which WP or WF grades were earned.

Averages will be computed on final hours and points in repeated courses, if any.

Requirements for Continuing in the College

Once you are enrolled in the Russ College of Engineering and Technology, you will continue in your program unless there is demonstrated weakness in the mathematics, science, and engineering-related subjects that indicates your inability to meet the academic requirements of the program. The associate dean for academics and department chair will make decisions concerning cases of this nature, and you will be notified accordingly.

In addition to the above overall performance, you must meet the specific requirements listed under "Deficiency Points" and "Retaking Courses."

Deficiency Points

Once you are enrolled in the Russ College of Engineering and Technology you will continue in your program in a normal manner, provided:

- 1 You maintain an average of 2.0 (C) or better in all hours attempted at Ohio University that are applicable toward a degree.
- 2 You maintain an average of 2.0 (C) or better in all hours attempted in the Russ College of Engineering and Technology that are required for graduation (including technical electives). There are several computer science courses that are not included in the g.p.a. computation.
- 3 You maintain an average of 2.0 (C) or above in all courses attempted in your major area of concentration that are applicable toward the degree. There are several computer science courses that are not included in the g.p.a. computation.

Averages in any of these categories below 2.0 (C) result in probation. If you are on probation in any quarter, your academic record is reviewed by the associate dean for academics to determine if you may continue in the program. If you are placed on University probation at the end of any quarter, you must earn a minimum of nine quarter hours of credit with a 2.0 (C) or better average in your next quarter of attendance or be dropped from the University. These credits must be in courses directly applicable to the degree requirements.

In the subsequent quarter, if your academic progress is such that you are not eligible to be removed from probation, your academic record will be reviewed to determine if you should be continued. The number of times a continuance may be granted is limited to three; thus, there is an absolute limit of four consecutive quarters on proba-

tion. Although the maximum number of times you may be continued on probation is four, if you are on probation you may be dropped at the end of any quarter for poor academic performance.

If you are placed on college or departmental probation at the end of any quarter, you must increase your college or departmental g.p.a. to above 2.0 (C) within the next four quarters of enrollment; or you will be dropped from the Russ College and/or your major. You should discuss your probation with your academic advisor, department chair, and/or the associate dean for academics. If you are dropped from the University, college, and/or major, you may appeal by contacting the associate dean for academics.

Normally, a petition for reinstatement will not be considered until 12 months after you are dropped.

Academic Probation

Students who are placed on academic probation during their first year are required to complete an Academic Success workshop. The 90-minute workshop aims to help students improve their academic performance and return to good academic standing. Information about the workshop is sent to students' local addresses and University e-mail accounts.

Retaking Courses

As a student in the Russ College of Engineering and Technology, you must succeed in a required program course by the third time you enroll in the course. ("Enroll" means being on the class roster after the fourteenth-day drop date.) If you do not meet this requirement, you will be dropped from your program. Success is a passing grade or, in those courses in which a grade of C or C- is required to continue a sequence, a minimum grade of C or C-.

When you retake a course, only the grade received in the most recent attempt is used to determine your accumulative g.p.a. You may not retake a course after an advanced course in the same field has been passed if the course that you desire to retake was a prerequisite for the advanced course.

Course Credit by Examination or correspondence may not be used to earn credit in a course required for graduation which you have previously failed.

Tier II Requirement

Many courses required for majors in the Russ College also satisfy components of the University-wide Tier II requirement. Students should consult with their faculty advisor before choosing additional courses for the purpose of satisfying the Tier II requirement.

English Requirement

In addition to the curricular requirements as stated on the following pages for departments in engineering and technology, you must also satisfy the University curricular requirements in English.

Pass/Fail Option

You may elect to take courses on a pass/fail basis within eligibility requirements stated in the Academic Policies and Procedures section.

Cooperative Education

Cooperative education opportunities and internships are available in the Departments of Chemical Engineering, Civil Engineering, Electrical Engineering and Computer Science, Industrial and Manufacturing Systems Engineering, Mechanical Engineering, and Industrial Technology. Students partici-

pating in cooperative education alternate periods of on-campus study with roughly equal periods of worksite experience. Students may also work back-to-back quarters.

Participation in cooperative education provides valuable career experiences. The alternating work/study periods allow you to integrate classroom theory with practical applications and provide you with opportunities to earn money to assist in financing your education. You can also participate in summer internships.

If you are interested in these programs, contact the assistant dean for career and outreach programs, Stocker 169.

Technology Fee

The Russ College of Engineering and Technology is committed to providing its students with the most modern computing tools available. To achieve this goal, all students enrolled in the Russ College are charged a quarterly technology fee. This fee is used to continuously upgrade the hardware and software available to all students in the college's computer labs. Full-time students (11-20 credit hours) are billed \$65 per quarter. Students enrolled for fewer than 11 hours are billed at a rate of \$6 per credit hour.

Financial Aid

In addition to the financial aid program sponsored by the University, the Russ College of Engineering and Technology and its departments have separately funded scholarships. All admitted students are automatically considered for both University and College scholarships. The College also has established a student loan fund for upperclass students needing assistance. Information is available in the dean's office, Stocker Center.

Global Leadership Center

For information about the Global Leadership Center, refer to the program description in the College of Communication section.

Exploratory (Undecided) Engineering Students

Major code ND0910

Each year a substantial number of new students entering the Russ College of Engineering and Technology do so without a firm commitment to any one of the engineering programs offered by the college. The schedule below is suggested for these students. Each listed course will satisfy a degree requirement in Chemical, Civil, Electrical, Industrial and Systems, or Mechanical Engineering. In some cases, the listed course will serve as a free elective.

Freshman

Fall		
CHEM 151	General Chem. ²	5
ET 280	Engr. and Tech.—An Overview ¹	4
MATH 263A	Analytic Geom. and Calc. ²	4
ENG 151	Freshman English ³	5
Winter		
CHEM 152	General Chemistry	5
IT 101	Engr. Graphics Fund. ¹	3
MATH 263B	Analytic Geom. and Calc.	4
ECON 103	Microeconomics ¹	4

Spring

PHYS 251	General Physics	5
CHE 231	Engineering Materials	4
MATH 263C	Analytic Geom. and Calc.	4
PHIL 130	Ethics ¹	4

¹ These courses may be taken during any quarter.

² Math and Chemistry course will depend upon freshman orientation placement exam results.

³ Students will take Freshman English in quarter assigned at freshman orientation.

Once a student has decided upon a major, he or she should begin to follow the preferred sequence for that major with advice from her or his faculty advisor. Students who begin their studies with a declared major and then change majors during their first year of study may substitute ME 101, EE 101, EE 102, CE 200, CHE 100, or ISE 200 for ET 280.

Degree Programs

Aviation

Flight and Aviation Management Options

Ohio University has been actively involved in aviation since 1939. It has many years of service to the aviation industry as an aviation education institution. The University operates its own airport and the University owns a fleet of aircraft that are used for transportation, research, and student pilot training. Students studying for a career in aviation are involved in each of these important areas. The degree programs offered by the Department of Aviation are rigorous, challenging, and exciting. They are designed to prepare graduates of the program for demanding pilot and management positions in the aviation industry.

The Department of Aviation offers a Bachelor of Science degree with two options: Flight and Aviation Management. Also, a two-year Associate degree program is offered. The Flight option program is a Federal Aviation Administration (FAA) approved FAR 141 program that meets the federal regulations for pilot training schools. Specifically, the Flight program educates and prepares students for a variety of pilot-related positions, including professional flight instructor, commercial pilot, airline pilot, and corporate pilot positions. The Aviation Management option is a program designed to prepare students to meet the challenges of working in and managing various operations within the aviation industry. It provides the graduate with the ability to undertake positions in the aviation industry and to progress in time to managerial and supervisory positions with the necessary leadership and human relations skills. Both options give the graduate the broad knowledge base, perspectives, and flexibility to compete in the increasingly technical world of aviation.

Flight option students are expected to complete each flight course in one quarter. However, in some circumstances beyond the control of the student, such as weather, students can carry over completion of the course to the following quarter with permission. If the requirements for the course completion are not met in the following quarter, the student may be automatically dropped from the program.

Students must maintain a 2.0 g.p.a. to enroll in flight courses. Additionally, students must receive a grade of C- (70%) or better in all ground school courses that require an FAA knowledge test as a prerequisite for the appropriate flight course. It is possible to substitute elective courses in the curriculum as long as the minimum total credits for that

subject area is maintained and that prior approval is received from the Department of Aviation.

Flight option majors must take AVN 400, AVN 420, AVN 430, AVN 445, and AVN 455 at Ohio University. These courses can not be transferred to Ohio University.

Bachelor of Science in Aviation—Flight Option Major code BS7258

General Education Requirements

General Studies: 38 hours

ENG 151 or ENG 152 or 153	Freshman Comp. (1E)	5
PSY 101	General Psychology (2S)	5
COMS 101	Fundamentals of Human Communication (2H)	4
COMS 103	Fund. of Public Speaking	4
ENG 305J	Technical Writing (1J)	4
Choose a minimum of 16 hours from the classes below		
ECON 103	Microeconomics (2S)	4
ECON 104	Macroeconomics (2S)	4
POLS 101	American National Government (2S)	4
GEOG 121	Human Geography (2S)	4
COMS 205	Group Discussion	4
COMS 206	Comm. in Interpersonal Relationships	4
COMS 342	Communication and Persuasion	4
PHIL 101	Fund. of Philosophy (2H)	4
ART 110	Seeing and Knowing the Visual Arts (2H)	4
ENG 200	Intro to Literature (2H)	4

Math/Science/Technology: 33 hours

MATH 163A	Calculus (2N)	4
PHYS 201	Intro to Physics (2N)	5
PSY 120	Elementary Statistics	4
GEOG 101	Elements of Physical Geography (2N)	5
GEOG 201	Environmental Geography (2A)	4
GEOG 302	Meteorology	5
GEOG 304	Obs. in Meteorology and Forecasting	2
Choose a minimum of 4 hours from the classes below		
MATH 113	Algebra (1M)	5
PSC 100	Survey of Astronomy (2N)	4
GEOG 405	Forecasting in Meteorology	2

Computer Science: 8 hours

CS 120	Computer Literacy	4
Choose a minimum of 4 hours from the courses below		
CS 230	Computer Programming (2A)	5
MIS 202	Business Info Sys.	4

Management and Human Resource Management: 16 hours

MGT 202	Intro to Management (2S)	4
MGT 340	Organizational Behavior	4

Choose additional 8 hours from College of Business courses 200 or above.

General Electives: 4 hours

Tier III: 4 hours

Aviation Core Requirements

Aviation Core: 24 hours

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 300	Aviation Laws and Regulations	4
AVN 305	Aviation Weather	4
AVN 315	Aviation Safety	4
AVN 360	Natl. Airspace System	4

Option Requirements

Flight Education: 72 hours

AVN 240	Private Pilot Flight	4
AVN 310	Adv. Aeronautics	4
AVN 320	Adv. Aircraft Systems	4
AVN 340	Cross-Country Flight	4

AVN 350	Instrument Flight Systems and Procedures	4
AVN 400	Instrument Flight	4
AVN 405	Advanced Cross Countries	4
AVN 420	Commercial Flight	4
AVN 430	Multi-Engine Flight	4
AVN 440	Flight Instructor Ground	4
AVN 445	Flight Instructor Flight	4
AVN 450	Instrument Instr. Ground	3
AVN 455	Instrument Instr. Flight	4
AVN 475	Aviation Internship	2
AVN 390	Airline Oper. and Mgt.	4
AVN 480	Gen. Aviation Operations and Mgt.	4
AVN 485	Adv. Acft/Flt Crew Ops	5
AVN 489	Transition to Aviation Industry	2
IT 220	Aircraft Powerplants	4
Additional (optional) electives:		
AVN 410	Fund. of Aviation for Teachers	4
AVN 435	Flight Engineer	4
AVN 462	Multi-Engine X-C	1
AVN 465	Multi-Engine Flight Instr.	2
AVN 486	Principles Corp Flt Ops	4
AVN 487	Corp Fit Ops Int	2-6

Total hours required 195

Note: You must meet all University General Education Requirements in order to graduate.

**Bachelor of Science in Aviation—
Aviation Management Option
Major code B57261**

General Education Requirements

General Studies: 38 hours

ENG 151 or ENG 152 or 153	Freshman Comp. (1E)	5
PSY 101	General Psychology (2S)	5
COMS 101	Fundamentals of Human Comm. (2H)	4
COMS 103	Fund. of Public Speaking	4
ECON 103	Microeconomics (2S)	4
ECON 104	Macroeconomics (2S)	4
ENG 305J	Technical Writing (1J)	4

Choose a minimum of 8 hours from the classes below

COMS 205	Group Discussion	4
COMS 304	Interviewing	4
COMS 342	Communication and Persuasion	4
PHIL 101	Fund. of Philosophy (2H)	5
ART 110	Seeing and Knowing the Visual Arts (2H)	4
ENG 200	Intro to Literature (2H)	4

Math/Science/Technology: 38 hours

MATH 163A	Calculus (2N)	4
PHYS 201	Intro to Physics (2N)	5
PSY 120	Elementary Statistics	5
GEOG 101	Elements of Physical Geography (2N)	5

Choose a minimum of 20 hours from the classes below

MATH 113	Algebra (1M)	5
PSC 100	Survey of Astronomy (2N)	4
COMT 101	Comm. Systems Mgt. (2A)	4
HLTH 202	Health Sciences and Lifestyle Choices (2A)	4
GEOG 302	Meteorology	5

Computer Science: 8 hours

CS 120	Computer Literacy	4
Choose a minimum of 4 hours from the courses below		
CS 230	Comp. Programming (2A)	5
MIS 202	Business Info Sys	4

General Electives: 28 hours

	Tier III	4
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Choose at least 24 hours of University courses to meet the 192-hour requirement (AVN 240 is recommended).

Aviation Core Requirements

Aviation Core: 24 hours

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 300	Aviation Laws and Regulations	4
AVN 305	Aviation Weather	4
AVN 315	Aviation Safety	4
AVN 360	Natl. Airspace System	4

Option Requirements

General Business: 44 hours

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
MGT 202	Management	4
MGT 340	Organizational Behavior	4
HRM 320	Human Resource Mgt.	4
FIN 325	Managerial Finance	4
BUSL 255	Law and Society	4

Choose 16 credit hours from the courses below.

Note: You may not exceed 44 credit hours in College of Business courses.

MGT 430	Mgt. Systems—Decision Making	4
BUSL 356	Law of Mgt. Process	4
ECON 305	Managerial Economics	4

Choose an additional 4 credit hour College of Business course, 300 or higher.

Aviation Management: 12 hours

AVN 390	Airline Oper. and Mgt.	4
AVN 480	General Aviation Oper. and Mgt.	4
AVN 475	Aviation Internship	2
AVN 489	Transition to Aviation Ind.	2

Total hours required 192

Note: You must meet all University General Education Requirements in order to graduate.

Aviation Technology (A.A.S.)

Major code AA7250

The Associate in Applied Science (A.A.S.) degree in Aviation Technology is offered by the Department of Aviation exclusively at the Athens campus. The degree program provides students with the opportunity to explore career possibilities in the field of aviation and to receive pilot certification through the instrument rating and the commercial pilot certificate before committing to the baccalaureate degree program. Also, students who complete the A.A.S. degree program may terminate their studies and enter the aviation industry to pursue career positions as certified pilots and other opportunities as may be available. However, A.A.S. degree students are strongly encouraged to continue their studies for the B.S. degree because of the competitive nature of the aviation industry wherein the most qualified personnel are sought. Students interested in this program should contact the Department of Aviation.

Students must receive a grade of C- (70%) or better in all ground school courses that require an FAA written test as a prerequisite for the appropriate flight course.

Technical Requirements: 56 hours

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 240	Private Pilot Flight Course	4
AVN 300	Aviation Laws and Regs.	4
AVN 305	Aviation Weather	4
AVN 310	Adv. Aeronautics	4
AVN 315	Aviation Safety	4
AVN 320	Adv. Aircraft Systems	4
AVN 340	Cross Country Flight	4
AVN 350	Instrument System Regulations and Procedures	4

AVN 360	The National Airspace System	4
AVN 400	Instrument Flight	4
AVN 405	Adv. Cross Countries	4
AVN 420	Commercial Flight	4

The following flight courses must be taken at Ohio University: AVN 400, 405, and 420. No transfer or experiential credit will be given.

General Requirements: 43-44 hours

CS 120	Computer Literacy	4
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ENG 151	Freshman Composition	5
GEOG 101	Physical Geography	5
COMS 103	Fund. of Public Speaking	4
MATH 115	Pre-Calculus or higher Tier I MATH	4-5
MGT 202	Management	4
POLS 101	American National Govt.	4
PSY 101	General Psychology	5

Minimum required for graduation: 99-100

Chemical and Biomolecular Engineering

Bachelor of Science in Chemical Engineering

Major code BS7251

Chemical engineering is that branch of engineering that deals with changing raw materials into valuable products that you use everyday. The discipline of chemical engineering is based on the application of chemistry, biology, physics, materials science, mathematics, and economics. The traditional chemical engineer develops a chemical process from its laboratory beginnings through pilot-plant equipment to full-scale, production plant operations. Chemical engineers are employed in a wide range of industrial and research positions. In addition to the traditional chemical engineering employers in the chemical and petroleum industries, chemical engineers increasingly find employment in the areas of polymers, pharmaceuticals, food processing, agriculture, environmental engineering, biotechnology, paper processing, energy, and electronics.

The chemical engineering program at Ohio University prepares undergraduate students for the opportunities and challenges that they will meet upon graduation. Our curriculum includes traditional chemical engineering courses such as mass and energy balances, thermodynamics, fluid flow, heat transfer, separation processes, reaction engineering, and process design. Our students also have the opportunity to take special topics courses in materials engineering, environmental engineering, biochemical and biomedical engineering, corrosion, and electrochemical engineering. Students may use these special topics courses to tailor their own individual area(s) of specialty emphasis.

The educational objectives of our chemical engineering program, listed below, describe the skills and abilities that we expect our students to gain as they progress towards graduation.

Objective 1: Graduates will have a strong foundation in chemical engineering theory and practice.

Outcomes for Objective 1: Students will demonstrate the ability to:

- apply knowledge to chemical engineering problems from subjects including mathematics, chemistry, physics, biology, and other engineering disciplines;
- apply knowledge of chemical engineering fundamentals including material balances, energy balances, thermodynamics; momentum transfer and fluid flow, heat transfer, mass transfer, chemical reaction engineering, and bioengineering;

- apply knowledge of chemical engineering unit operations such as heat exchangers, continuous contacting equipment, staged separation processes, chemical reactors, and mass transfer equipment;
- complete experimental studies including designing and conducting experiments, formulating mathematical models, and analyzing and interpreting results using statistical tools;
- solve engineering problems including identifying the problem to be solved, determining what data is and isn't needed, identifying probable causes and potential solutions, identifying applicable theory and constructing modeling equations, articulating underlying assumptions in the theory, identifying the type of math problem and appropriate solution techniques, solving several steps in sequence, and critically evaluating the solution for reasonableness;
- and design chemical processes, using current engineering tools and considering controllability, product quality, economics, safety, and environmental concerns.

Objective 2: Graduates will have communication and interpersonal skills needed to succeed in a professional environment.

Outcomes for Objective 2. Students will demonstrate the ability to:

- participate effectively in a team through leadership, individual contributions, and multidisciplinary interactions;
- and communicate in oral, written, and graphical form.

Objective 3: Graduates will be scholars and professionals and dedicated to the betterment of themselves and society.

Outcomes for Objective 3. Students will demonstrate the ability to:

- articulate the responsibilities of engineering practice including professional responsibilities and ethical responsibilities;
- articulate the interaction between engineering solutions, contemporary issues, and cultural perspectives;
- and engage in life-long learning by learning independently and articulating the importance of independent learning for future professional development.

In addition to our required core courses, a total of 21 credit hours of technical electives (including six in advanced chemistry) are required. These elective courses permit students to pursue interests in various areas of science and engineering.

Students so inclined, may concentrate their technical electives in one of three areas: a biological focus, a materials focus, or a focus on energy and the environment. In order to be recognized for a focus, the student will need to complete at least four technical courses related to that focus area. Lists of the pre-approved courses in each area are available in the department. Chemistry courses which also meet the advanced chemistry technical elective requirement are included on each list.

Freshman

Fall			
CHEM 151	Fund. of Chemistry I		5
MATH 263A	Calculus		4
CHE 100	Intro Chemical Engineering		2
ENG 151, 152, or 153	English Composition ¹		5

Winter		
CHEM 152	Fund. of Chemistry II	5
MATH 263B	Calculus	4
	Free Elective ¹	3
	Tier II Requirement ^{1, 2}	4
Spring		
CHEM 153	Fund. of Chemistry III	5
MATH 263C	Calculus	4
CHE 101	ChE Problem Solving	3
	Tier II Requirement ^{1, 2}	4
Sophomore		
Fall		
CHEM 305	Organic Chemistry	3
MATH 263D	Calculus	4
PHYS 251	General Physics	5
BIO5 170	Intro to Zoology I	5
Winter		
CHEM 306	Organic Chemistry	3
MATH 340	Differential Equations	4
PHYS 252	General Physics	5
CHE 200	Material Balances	4
Spring		
CHE 231	Principles of Engr. Mat.	4
CHE 201	Energy Balances	4
PHYS 253	General Physics	5
	Technical Elective ³	3
Junior		
Fall		
CHE 305	ChE Thermodynamics	4
CHE 345	ChE Fluid Mechanics	5
CHE 400	ChE Applied Calculations	3
	Technical Elective ³	3
Winter		
CHE 306	ChE Phase Equilibria	4
CHE 346	ChE Heat Transfer	5
	Technical Elective ³	3
ENG 305J	Junior Comp. or other jr-level comp.	4
Spring		
CHE 307	Chemical Reaction Engr I	3
CHE 347	Mass Transfer and Separations	5
CHE 408	Experimental Design	3
	Technical Elective ³	6
Senior		
Fall		
CHE 308	Chemical Reaction Engr II	4
CHE 415	Unit Operations Lab I	3
CHE 448	Safety in Process Industry	3
CHEM 453	Physical Chemistry	3
	Technical Elective ³	3
Winter		
CHE 416	Unit Operations Lab II	3
CHE 442	Process Control	4
CHE 443	ChE Design I	4
CHEM 454	Physical Chemistry	3
CHE 481	Biochemical Eng.	3
or CHE 483	Biomedical Eng. ⁴	3
Spring		
CHE 417	Process Control Lab	2
CHE 444	ChE Design II ⁵	4
CHE 499	ChE Senior Assessment	1
	Free Elective	4
	Technical Elective ³	3

¹ May be taken in any order.

² Tier II courses should be selected from the humanities, social science, and cross-cultural perspectives areas. At least four credit hours from each of any two of these areas is required.

³ Technical electives must be from approved list and include six hours of advanced chemistry.

⁴ In the case both courses are completed, three hours will count toward the technical elective requirement.

⁵ CHE 444 fulfills the University's Tier III requirement.

Civil Engineering

Bachelor of Science in Civil Engineering

Major code BS7252

Civil engineering evolved as a formal discipline at the start of the 19th century as a response to society's needs for increased mobility and convenience. Today's civil engineers deal primarily with public and private infrastructure and its relation to the environment, which includes planning, design, construction and maintenance of transportation systems, bridges, dams, buildings, water supply/distribution/treatment systems, wastewater and storm water collection/treatment/disposal systems, irrigation systems, and flood control. Civil engineers also operate public and private works, and design environmental protection for water, air, and land.

The Civil Engineering Program Educational Objectives state that graduates of the CE Program will (1) have an understanding of the fundamental engineering principles to solve problems and advance their knowledge base; (2) develop leadership skills necessary to assume progressively more responsible roles in their professions; (3) develop effective communication skills necessary to interact in a diverse professional environment; and (4) be able to employ modern engineering and computational tools.

The curriculum builds a sound foundation in basic sciences and mathematics, followed by courses in engineering science and design that provide a solid base for life-long professional learning. Engineering courses and laboratories provide an opportunity for students to experience those principles and standard practices that they will encounter in their careers. The curriculum is oriented to develop a student's ability to think logically and to apply the knowledge gained to the design and synthesis of complex civil engineering projects. The program provides an integration of design experience from the freshman year to the senior year, culminating in a capstone design course. The senior capstone course provides a comprehensive design experience for students that encompasses ethical, social, economic and safety issues. Engineering design, team problem solving and communication skills are emphasized throughout the curriculum. Students pursue areas of interest by selecting appropriate technical electives in the areas of environmental; construction; geotechnical; engineering materials; pavements; structures; transportation; and water resources. Graduates of the program are prepared to become registered professional engineers. Students are required to take the Fundamentals of Engineering (FE) Exam as part of their graduation requirements. The FE Exam is one of the first requirements to becoming a registered engineer. An optional program is available for those who want to become registered surveyors.

A co-op program is open to qualified civil engineering students, who can obtain technical experience and income by working for private or government organizations while still in school. Students who participate in the co-op program typically take more than four years to complete degree requirements.

Freshman

Fall		
CE 200	CE Fundamentals ¹	1
CHEM 151	Fund. of Chemistry I	5

ENG 151, 152, or 153	Freshman English	5
IT 101	Engr. Graphics Fund.	3
MATH 263A	Calculus I	4
Winter		
CHEM 152	Fund. of Chemistry II	5
IT 222	Civil Engr. Graphics	3
MATH 263B	Calculus	4
PHYS 251	Physics	5
Spring		
CE 210	Plane Surveying	4
CS 210	Programming in C	5
MATH 263C	Calculus	4
PHYS 252	Physics	5
Sophomore		
Fall		
CE 220	Statics	4
GEOL 283	Geology for Engineers ¹	4
MATH 263D	Calculus	4
PHYS 253	Physics	5
Winter		
CE 222	Strength of Materials	4
CE 223	Strength of Materials Lab	1
CE 311	Route Engineering ¹	3
MATH 340	Diff. Equations	4
ME 224	Dynamics	4
Spring		
CE 201	CE Comp. Tech ¹	3
CE 361	Transportation ¹	3
CHE 231	Prin. of Materials	4
CHEM 123	Prin. of Chemistry	4
COMS 103	Public Speaking	4
Junior		
Fall		
CE 330	Struct. Theory ¹	5
CE 340	Fluid Mechanics	4
CE 341	Fluid Mechanics Lab	1
CE 316	Const. Eng. Mgmt ¹	3
	Tier II Elective ²	4
Winter		
CE 370	Geotechnical Engr. ¹	4
CE 371	Soil Engr. Lab ¹	1
	CE Elective ³	3-4
ISE 304	Applied Engr. Statistics	3
ENG 305J, 308J, 309J	Junior Comp.	4
Spring		
CE 343	Hydrology ¹	3
CE 380	CE Materials ¹	3
CE 400	Societal Concerns in CE ¹	2
	CE Elective ³	3-4
	Tier II Elective ²	4
Senior		
Fall		
CE 342	Applied Hydraulics ¹	3
CE 450	Water Treatment ¹	3
CE 471	Foundation Engr. ¹	3
EE 313	Basic Elec. Engr. I	3
	CE Elective ³	3-4
Winter		
CE 428	CE Experimental Tech. ¹	3
CE 432	Concrete Design ¹	4
CE 451	Wastewater Treatment ¹	3
	CE Elective ³	3-4
ME 321	Thermodynamics	4
Spring		
CE 433	Steel Design ¹	4
	CE Elective ³	6-8

¹ Course offered only during quarter shown.

² To meet Tier II University General Education requirements, students must take at least 4 credit hours in each of two of the following areas: Cross-Cultural Perspective (2C), Humanities and Fine Arts (2H), and Social Sciences (2S). A list of acceptable courses can be found under Graduation Requirements-General Education Requirements in this catalog. A recommended list of courses in these areas can be obtained from the Civil Engineering Department.

³ Students have the option of selecting six civil engineering electives, one of which must be a senior capstone design course, CE 491A Land Development; CE 491B Water Resources-Environmental; CE 491C Structures-Soils; and CE 491D Senior Design. Five CE electives are required from the following list and should include at least three credits of design [design credits are shown in brackets]: CE 331 (3) Structural Theory II; CE 353 (3) Env. Engr. Basics [1]; CE 410 (3) Appl. Property Surveying; CE 415 (3) Geodetic Surveying; CE 416 (3) Construction Estimating; CE 423 (4) Continuum Mechanics; CE 424 (3) Strengths of Matls. II [1]; CE 427 (3) Exp. Stress Analysis; CE 434 (3) Adv. Str. Design [3]; CE 437 (3) Timber Des. [3]; CE 438 (3) Prestressed Concrete [3]; CE 439 (3) Computer-Aided Des. [3]; CE 445 (3) Flow Routing [1]; CE 452 (3) Water and Wastewater Analysis; CE 453 (3) Solid Haz. Waste Mgt. [2]; CE 454 (3) Green Engineering; CE 457 (3) Water Resources Engr. [3]; CE 462 (3) Traffic Engr. [2]; CE 474 (1) Soil Mechanics Lab; CE 482 (3) Paving Matls. and Mixtures [1]; CE 483 (3) Prin. of Pavement Des. [3]. Qualified students may, with the permission of the department, substitute certain graduate-level courses for the foregoing civil engineering electives.

NOTE: CE491A, CE 491B, CE491C, and CE491D fulfill the University Tier III requirement.

Computer Science

Bachelor of Science in Computer Science Major code BS7260

The computer science program is administered by the School of Electrical Engineering and Computer Science. The school is the beneficiary of a major endowment from the late Dr. C. Paul Stocker, an electrical engineering alumnus. This endowment provides support for facilities and a level of excellence surpassed by few other electrical engineering and computer science departments in the nation. Its laboratories and offices are located in Stocker Center and the Convocation Center. The program offers a Bachelor of Science in Computer Science (B.S.C.S) degree through the Russ College of Engineering and Technology that is accredited by the Computing Accreditation Commission of the Accreditation Board of Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4014—telephone: (410) 347.7000.

Computer science involves the design, development, analysis, and maintenance of the computer software that controls complex computer systems and networks. Computer scientists work with all aspects of computer software, including graphics, multimedia, the World Wide Web, e-mail, compilers, software engineering, artificial intelligence, theory of computer algorithms, operating systems, database systems, and internet applications.

While writing programs is an important function for computer scientists, they do much more than that. They analyze the needs of software users, develop algorithms and interfaces to meet those needs, and work in small groups to design software components. They must be proficient at problem solving, mathematical reasoning, logical thinking, and interpersonal communication. The computer science program at Ohio University, because of its strong ties with mathematics and engineering, emphasizes both the mathematical and the practical components of computer science.

The computer science program has three major objectives for its undergraduate students;

- **Depth and Breadth:** Produce graduates that will have the theoretical, practical, and professional knowledge necessary to be productive upon entering the workforce or successful in advanced study;
- **Staying Current:** Produce graduates that will maintain and develop the knowledge and skills needed to identify,

formulate, and solve problems throughout their careers; and

- Professionalism: Produce graduates that exhibit an understanding of the necessity for personal integrity, ethical behavior, and cultural awareness.

Program educational objectives are statements that describe the expected accomplishments of graduates during the first few years after graduation.

Computer science students must fulfill the University's General Education Requirements and the humanities and social science distribution requirements from the College of Arts and Sciences. Students are also required to complete one year of foreign language. Students have the option of completing four technical courses (OPTION B [PBIO 114 or BIOS 170, PBIO 115 or BIOS 171, PBIO 331 or BIOS 325, PBIO 427], E [MATH 340, EE 304, EE 313, EE 314], or G [VICO 462, VICO 314, VICO 361, VICO 371]), or an additional year of foreign language (OPTION L). (See the College of Arts and Sciences for the requirement waiver policy for international students and foreign language completed in high school.) There are 10 required courses in mathematics, engineering, and basic sciences, which provide a foundation for the 14 required courses in computer science and electrical engineering. These courses culminate with CS 456 where students are required to complete a capstone software project. Students take four technical elective courses in which they can explore areas of computer science at an advanced level. During the course of their program, students work with several programming languages using both personal computers and UNIX workstations.

Computer science majors must complete 192 hours of coursework for an average of 16 hours a quarter over four years of undergraduate study. Credit earned in approved internship or co-op programs may be applied toward graduation requirements.

Due to the prerequisite requirements of OPTION E, students following that option must take PHYS 251, PHYS 252, and PHYS 253. Students following OPTIONS B, G, or L may take either physics (PHYS 2251, 252, and 253) or chemistry (CHEM 151, 152, 153, or 123), as their science sequence. Example programs of study are provided below for options E and L.

Option E (1 year foreign language, 1 year technical courses)

Freshman

Fall	MATH 263A	Calculus	4
		Soc. sci. or humanities ⁵	3-5
		Freshman composition ²	5
		Foreign language ³	4

Winter	CS 240A	Intro to Computer Sci. ⁴	5
	MATH 263B	Calculus	4
		Foreign language ³	4
	EE 102	Intro to CPE	4

Spring	CS 240B	Intro to Computer Sci.	4
	MATH 263C	Calculus	4
	CS 265	Computer Ethics	1
		Soc. sci. or humanities ⁵	3-5
		Foreign language ³	4

Sophomore

Fall	CS 240C	Intro to Computer Sci.	4
	MATH 263D	Calculus	4
	PHYS 251	General Physics	5
		Additional sci. course ¹	3-5

Winter

CS 300	Intro to Discrete Structures	5
MATH 410	Matrix Theory	4
PHYS 252	General Physics	5

Spring

CS 361	Data Structures	5
MATH 340	Differential Equations ³	4
PHYS 253	General Physics	5

Junior

Fall

CS 404	Design & Anal. of Algs.	5
EE 371	Applied Prob. and Stats.	4
EE 304	Basic Elec. Lab I	1
EE 313	Basic Elec. Engr. I	3
	Soc. sci. or humanities ⁵	3-5

Winter

CS 320	Org. of Prog. Languages	5
EE 314	Basic Elec. Engr. II	3
	Junior Composition ²	4
EE 395A	ECE Design I	4

Spring

CS 406	Computation Theory	5
	Free Elective	5
	Soc. sci. or humanities ⁵	3-5

Senior

Fall

CS 442	Op. Sys. and Comp. Arch. I	5
	Technical elective ⁶	5
	Soc. sci. or humanities ⁵	6-10

Winter

	Technical elective ⁶	5
	Free Elective	4
	Soc. sci. or humanities ⁵	3-5

Spring

	Technical elective ⁶	6-10
CS 456	Software Design and Dev. ²	5

Option L (2 years foreign language)

Freshman

Fall

MATH 263A	Calculus	4
	Science sequence ¹	5
	Freshman composition ²	5
	Foreign language ³	4

Winter

CS 240A	Intro to Computer Sci. ⁴	5
MATH 263B	Calculus	4
	Foreign language ³	4
EE 102	Intro to CPE	4

Spring

CS 240B	Intro to Computer Sci.	4
MATH 263C	Calculus	4
CS 265	Computer Ethics	1
	Science sequence ¹	4-5
	Foreign language ³	4

Sophomore

Fall

CS 240C	Intro to Computer Sci.	4
MATH 263D	Calculus	4
	Foreign language ³	4
	Science sequence ¹	5

Winter

CS 300	Intro to Discrete Structures	5
MATH 410	Matrix Theory	4
	Foreign language ³	4
	Additional sci. course ¹	5

Spring		
CS 361	Data Structures	5
	Soc. sci. or humanities ⁵	3-5
	Foreign language ³	4
Junior		
Fall		
CS 404	Design & Anal. of Algs.	5
EE 371	Applied Prob. and Stats.	4
	Soc. sci. or humanities ⁵	6-10
Winter		
CS 320	Org. of Prog. Languages	5
	Junior Composition ²	4
	Soc. sci. or humanities ⁵	3-5
EE 395A	ECE Design ¹	4
Spring		
CS 406	Computation Theory	5
	Technical Elective ⁶	5
	Soc. sci. or humanities ⁵	3-5
Senior		
Fall		
CS 442	Op. Sys. and Comp. Arch. I	5
	Technical elective ⁶	5
	Soc. sci. or humanities ⁵	6-10
Winter		
	Technical elective ⁶	5
	Free Elective	4
	Soc. sci. or humanities ⁵	3-5
Spring		
CS 456	Software Design and Dev. ²	5
	Technical elective ⁶	5
	Free elective	1-3

¹ Computer science majors must complete a year-long laboratory science sequence: either PHYS 251, 252, and 253 or CHEM 151, 152, and (123 or 153). *NOTE THAT STUDENTS TAKING OPTION E, ABOVE, MUST TAKE THE PHYSICS SEQUENCE. In addition, students must complete one additional natural science course. Eligible courses include BIOS 170, 171, 275; CHEM 151 (if not taken to satisfy the year-long sequence requirement), 241, 305, 351, 453; PBIO 110, 111, 247, 248; GEOL 101, 480; ASTR 305; PHYS 251 (if not taken to satisfy year-long sequence requirement), 311, 351, 411, 423, 427. PHYS 251 has a prerequisite of MATH 263A, so you may need to wait until winter quarter to start the PHYS sequence.

² The Tier I freshman composition requirement can be satisfied any quarter of the freshman year. The Tier I junior composition requirement can be satisfied in any quarter of the junior year; ENG 305J is preferred. The Tier III requirement is satisfied by CS 456.

³ Computer science majors must take either two years of foreign language, or one year of foreign language and courses required for either options B, E, or G. Two or three years of high school foreign language fulfill one year of the foreign language requirement; four or more years of high school foreign language fulfill two years of the foreign language requirement.

⁴ Students without experience in computer programming are encouraged to take CS 210 Computer Programming I before taking CS 240A.

⁵ Computer science majors have the same humanities and social science requirements as the College of Arts and Sciences (see College of Arts and Sciences "College Requirements" section). The natural science portion of the requirements is fulfilled by required coursework in mathematics and science. Careful selection of courses under this requirement will also fulfill University Tier II requirements.

⁶ Computer science technical electives can be satisfied at any time; four classes are required. Students can select from MATH 444, MATH 445, EE 467, EE 468, CS 410, CS 425, CS 444, CS 458, CS 462, CS 475, CS 480.

Electrical Engineering

The electrical engineering program is administered by the School of Electrical Engineering and Computer Science (EECS). The school is the beneficiary of a major endowment from the late Dr. C. Paul Stocker, an electrical engineering alumnus. This endowment provides support for facilities and a level of excellence surpassed by few other electrical engineering and computer science departments in the nation.

The School of Electrical Engineering and Computer Science is located in Stocker Center, a modern facility housing undergraduate, graduate, and research activities. The program offers a Bachelor of Science in Electrical Engineering (B.S.E.E.) degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology, 111 Market Place, Suite 1050, Baltimore MD 21202-4012—telephone: (410) 347.7700.

Electrical engineering addresses the wide application of electrical and electronic phenomena to real-world needs, from consumer goods to space exploration. It encompasses such diverse areas as research, development, design, sales, and operation of electrical and electronic systems. Areas of specialization include such varied fields as circuit design, communications, computers and automata, control systems, electromagnetics, energy sources and systems, power electronics, power system planning, electronics, and instrumentation. Students interested in digital computers may choose from courses in the school on programming, digital circuits, computer design, and software engineering.

Electrical engineering graduates hold challenging positions in such nonelectrical industries as chemical, nuclear, automotive, medical, textile, petroleum, and transportation, as well as in electronics, communications, power, control, and other electrical industries. The jobs performed by electrical engineering graduates include such diverse activities as research, development, design, production and manufacturing, and consulting.

The electrical engineering program has three major objectives for its undergraduate students:

- **Depth and Breadth:** Produce graduates that will have the theoretical, practical, and professional knowledge necessary to be productive upon entering the workforce or successful in advanced study;
- **Staying Current:** Produce graduates that will maintain and develop the knowledge and the skills needed to identify, formulate, and solve problems throughout their career; and
- **Professionalism:** Produce graduates that exhibit an understanding of the necessity for personal integrity, ethical behavior, and cultural awareness.

Program Educational objectives are statements that describe the expected accomplishments of graduates during the first few years after graduation.

The program offers two curriculum tracks leading to a B.S.E.E. degree. The electrical engineering (EE) track is intended for students who want to work in one of the many areas of electrical engineering. A computer engineering (CpE) track is available for students who intend to work in the area of computers. Students who are undecided as to which area they want to pursue should follow the electrical engineering track until they decide.

All electrical engineering students must fulfill the University's general education requirements. Students will select elective courses in conjunction with their advisors. To develop the general knowledge and skills necessary to support the study and practice of engineering, students will take 12 courses in mathematics and the basic sciences. The purpose of the five general engineering courses is to give students an understanding of engineering fundamentals outside of electrical engineering.

The electrical engineering portion of the curriculum consists of seven blocks of courses. The introductory block is intended to promote the students interested in electrical engineering

while introducing physical and logical concepts necessary for future studies. The goal of the foundations block is to develop the fundamental knowledge and analytical skills necessary for the study and practice of electrical engineering. The intermediate breadth block prepares the student to study the various areas of electrical engineering and computer engineering at the advanced level. EECS electives allow students to develop specialized knowledge and skills in one of the areas of electrical and computer engineering or explore other topics at the advanced level.

Because the ability to solve problems is critical for engineers, students will develop engineering design skills as they progress through the curriculum. While engineering design is addressed in most EE courses, it is given special emphasis in EE 103, EE 212, EE 334, and CS 456. In the intermediate design block, students will develop experience in experimental design and analysis. The design experience culminates in the senior year with the EE 495A, B, and C sequence of courses where students complete a design project that simulates work found in professional practice.

EE faculty take their student advising duties very seriously. Each new student is assigned a faculty member as an academic advisor: students meet with their advisor on a quarterly basis to discuss course scheduling. During each quarter, EE faculty set office hours aside to meet with students and assist them with class assignments.

Ohio University is unique in offering internships in avionics engineering. The Ohio University Avionics Engineering Center, a research and engineering organization that is a unit within EECS, is extraordinary in providing undergraduate electrical engineering majors direct field and laboratory experience on real-world avionics projects sponsored by federal agencies and industry. Internship course credit can be granted for laboratory work performed, and a number of part-time jobs are supported for qualified students. Interns work with the professional faculty and staff on projects involving instrument landing systems, navigation processors, test flight evaluation, and low frequency navigation sensor systems.

Students can also participate in the College's co-op program through which they can obtain practical experience and extra income by working for a corporation or a government organization while pursuing their degree. Participating in the co-op program will typically add extra time to the completion of all degree requirements. Sophomore and Junior courses are scheduled to accommodate all students participating in the co-op program. Due to the capstone design sequence of courses (EE 495 A, B, and C), students will not be able to co-op during their last year.

Bachelor of Science in Electrical Engineering

Major code BS7253 EE Track

Major code BS7254 CpE Track

General Studies

	Freshman Composition	5
ENG 305J	Technical Writing	4
	Tier III ¹¹	4

Math and Basic Science

MATH 263A	Calculus	4
MATH 263B	Calculus	4
MATH 263C	Calculus	4
MATH 263D	Calculus	4
MATH 340	Diff. Equations	4
MATH 440	Vector Analysis	4
CHEM 151	Fund. of Chemistry I	5
PHYS 251	Gen. Physics	5
PHYS 252	Gen. Physics	5

General Engineering

CE 220	Statics	4
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Electrical Engineering

Introduction

EE 101	Intro to EE	4
EE 102	Intro to CpE	4
EE 103	Intro to ECE Design	4

Foundations

EE 210	Foundations of ECE I	4
EE 211	Foundations of ECE II	4
EE 212	Foundations of ECE III	4
EE 221	Instrumentation Lab	4

Intermediate Breadth

EE 321	Electromagnetics I	5
EE 371	Probability and Statistics for EEs	3

Select either the EE Track or the CpE Track courses:

EE Track

EE 333	Intermediate EE I	4
EE 334	Intermediate EE II	4

CpE Track

EE 224	Intro. Dig. Circuits & Comp. Design	4
EE 351	Intermediate CpE I	4
EE 352	Intermediate CpE II	4

Intermediate Design

EE 395A	Int. ECE Design Exp. I	4
EE 395B	Int. ECE Design Exp. II	4
EE 395C	Int. ECE Design Exp. III	4

Advanced Design

EE 495A	ECE Capstone Design I	4
EE 495B	ECE Capstone Design II	4
EE 495C	ECE Capstone Design III	4

Electives

Students, in conjunction with their advisor, will create a plan of study for additional elective courses. (Minimum of 18 courses and 72 hours.) The plan must contain a significant number of non-technical courses including some breadth (courses in different areas) and some depth (courses in the same area)⁸. The plan must include:

- 2 Tier II electives¹
- 3 Math²/Basic Science³ electives
- 2 Engineering electives⁴
- 2 Programming electives⁵
- 3 EECS electives⁶
- 2 Non-Technical Electives (Breadth/Depth)⁸
- 2 Technical Electives⁹
- 2 Free Electives (Tech or Non-Tech)¹⁰

Remedial courses⁷ may not be included in the plan of study.

Computer Engineering Track students should take CS 240A and 240B for their programming electives, CS 240C and CS 361 for their engineering electives, CS 300 for one of their Math/Basic science electives, EE 224 and CS 456 for their technical electives, and EE 461 as one of the EECS electives.

- ¹ Courses must be selected so that students take at least 4 hours in two of the three Tier II categories 2S, 2C, and 2H.
- ² Courses with automatic approval include CS 300, MATH 411, 410, 412, 413A, 441, 444, 446, 460A, 470, and 480A.
- ³ Courses with automatic approval include BIOS 170, 171, 172, CHEM 152, 123, 153, 301, GEOL 211, GEOL 231, 270, 283, BIOS 221, PHIL 320, PHYS 253, and PHYS 254.
- ⁴ Courses with automatic approval include CE 222, 340, CS 240C, 361, ME 224, 321, 412, 491, CHE 231.
- ⁵ Course pairs with automatic approval include CS 210 and 240A, and ET 181 and CS 240A.
- ⁶ Courses must be at the 300 or 400 level with at least two at the 400 level.
- ⁷ A remedial course is a course that is at a lower level than a required course. Examples would include MATH <263, PHYS 201, 202, 203, CS 120, 220, 230, ENG 150.
- ⁸ This combined with the two Tier II electives will normally satisfy the minimum breadth and depth (2+2) or (3+1) model. Exceptions to these have to be approved by the advisor.
- ⁹ Courses with automatic approval include any EE 3xx or EE 4xx courses (excluding required courses, EE 313, EE 314, and EE 315), CS 320-361, 404, 410, 442, 444, 456, 462, 480, MATH 410, 412, 444, 446, 460A, 460B, 470, ME 321, 410, 491, 492, CE 340, ISE 330, PHYS 253, 254.

¹⁰ Courses with automatic approval include all Tier II courses, and the approved Technical Electives list found in 9 above. Other approved courses must be \geq CS210, \geq PHY5 251, \geq MATH 263A, and \geq CHEM 151. Other free electives need the approval of the advisor.

¹¹ EE 495C is a Tier III equivalent course.

First-Year Program

The following sequence of classes is suggested for your freshman year. Your advisor will help you plan additional coursework to meet all graduation requirements in a timely manner.

Fall

MATH 263A	Calculus	4
CHEM 151	Fund. of Chemistry	5
EE 101	Intro to EE	4
or EE 102	Intro to CpE	
	Elective	4

Winter

MATH 263B	Calculus	4
	Math/Basic Science Elec.	4-5
EE 102	Intro to CpE	4
or EE 101	Intro to EE	
	Programming Elec.	4-5

Spring

MATH 263C	Calculus	4
	Math/Basic Science Elec.	4-5
EE 103	Intro to ECE Design	4
	Freshman Comp.	5

EE 101 and EE 102 can be taken concurrently if needed. EE 101, EE 102, and one programming course must be passed prior to EE 103 enrollment.

CpE track students take CS240A as a programming elective in the winter and CS240B in the spring instead of the math/science elective.

Juniors and Seniors

Juniors are encouraged to attend the Senior Electives Fair organized by the Assistant Chair during the spring quarter of the junior year. The purpose of the fair is to assist students with choosing their senior electives.

Seniors are required to arrange a graduation check with the Assistant Chair no later than the end of the fall quarter of their senior year.

Seniors are expected to complete an exit survey during the spring quarter of their senior year.

For more information visit the School's web site:

<http://www.ohio.edu/eecs/>

Industrial and Systems Engineering

Bachelor of Science in Industrial and Systems Engineering Major code BS7255

Industrial and systems engineers obtain a broad technical background with special attention to productivity, costs, quality, and the human factor in production and other systems. These systems to which industrial engineering techniques can be applied are quite diverse. Typically, industrial engineers have worked in manufacturing systems, but the methods have found applications in many other systems, including distribution centers, information systems, hospitals, transportation networks, and financial systems.

Because of the diverse situations in which industrial engineering is used, IEs can be called by a variety of titles, including Process Engineer, Process Improvement Engineer, Quality Engineer, and Systems Engineer.

Upon graduation with an Industrial and Systems Engineering (ISE) degree, you will be responsible for designing, analyzing, optimizing, and controlling these large-scale systems. You

will also manage the operation of these systems, taking into account such vital factors as quality, throughput, utilization, costs, energy, reliability, and safety.

As an industrial engineer, you will develop performance measures and standards for equipment and workers to achieve a more effective system. You will also apply engineering principles to design systems that meet technical and economic requirements. Due to their systems training and experience, many industrial and systems engineers move into management positions after a few years on the job.

To prepare our graduates for their job responsibilities, the primary objective of the Industrial and Systems Engineering Program is to produce engineers who are able to design, develop, and implement systems that integrate people, materials, equipment, information and energy. When you have completed the requirements for the ISE degree, you will have the necessary analytical and experimental skills to identify, formulate, and solve engineering problems.

To successfully address technical, business, societal, and ethical aspects in their engineered solutions, several necessary skills have been identified. These skills include:

- the ability to apply appropriate industrial engineering methods and techniques to complex systems
 - the ability to apply concepts of engineering science, mathematics, physics and chemistry
 - the ability to utilize software relevant to industrial and manufacturing systems engineering
 - the ability to design, conduct and analyze statistically-valid experiments
 - interpersonal and professional communication
 - teamwork and leadership
- In addition, graduates should have a professional attitude demonstrated by:
- the identification and recognition of the need to continue learning by both formal and informal means;
 - appreciation of the relevance of industrial engineering fundamentals and practice to non-manufacturing areas;
 - integrity, cultural awareness, and ethical behavior

Courses in the first year of the program are similar to the curricula of the other engineering disciplines and include math, chemistry, and general education courses. Second year courses include a sequence in physics and several fundamental industrial engineering topics; the third year includes more advanced industrial engineering topics.

In the fourth year, a large number of the courses are electives. The categories of electives include ISE, engineering science, and business. The senior year also contains courses in a professional concentration area (PCA); these areas were recently added to the curriculum to reflect the fact that graduates of the ISE program work in many different fields.

The goal of the PCA options is to provide you with a more specialized preparation for your career. The current options are Manufacturing, Supply Chain Management, Health Care Systems, Human Factors, Information Systems, and Facility Planning and Development. If you are unsure about the career field that you want to pursue, there is also a general Industrial Engineering PCA.

An emphasis in the program is the development of good system design skills. In your senior year, you will complete ISE 445 A/B, a two-course sequence focusing on applied system design. In this course, you will work on a problem related

to the design or improvement of an actual system, such as a manufacturing information system, an inventory control system, a material handling system, or a quality control system. The projects are provided by local industries that participate in our program.

If you wish to increase the breadth or depth of your knowledge, the department offers courses leading to the M.S. ISE and participates in the College's integrated Ph.D. degree program.

Salaries are competitive and because of the increasing need for the U.S. to improve productivity to meet international competition, the need for industrial and systems engineers in manufacturing and other organizations is projected to remain strong.

For more information, see the department's Web site: <http://www.ohio.edu/industrial/>

An electronic version of this curriculum can be downloaded from the departmental Web site in the form of a flow chart that shows the courses by quarter, including prerequisites.

Freshman Year (49 credits)

Fall

MATH 263A	Calculus I	4
	Chemistry Elective ¹	4
ENG 151	Freshman Composition	5
ECON 103	Microeconomics	4
		17

Winter

IT 101	Engineering Drawing	3
MATH 263B	Calculus II	4
	Math/Science Elective ²	4
ISE 200	Intro to Computers and IE	4
		15

Spring

MATH 263C	Calculus III	4
PSY 101	General Psychology	5
PHIL 130	Introduction to Ethics	4
	Communications Elective ³	4
		17

Sophomore Year (49 credits)

Fall

ISE 330	Engineering Economy	3
PHYS 251	Physics I	5
	Math/Science Elective ²	4
	Business Elective ⁴	4
		16

Winter

ISE 201	Data Mgmt. and Display	4
ISE 305	Engineering Statistics I	4
MATH 211	Elementary Linear Algebra	4
PHYS 252	Physics II	5
		17

Spring

ISE 306	Engineering Statistics II	4
ISE 334	Work Design	3
IT 303	Appl. of Obj-Oriented Prog.	4
PHYS 253	Physics III	5
		16

Junior Year (45 credits)

Fall

ISE 432	Inventory and Manuf. Control I	4
ISE 336	Project Management	3
ISE 441	Operations Research	4
ISE 412	Principles of Six Sigma	4
		15

Winter

ISE 435	Quality Control and Reliability	3
ISE 433	Computer Simulation	4
	ISE Elective ⁵	4
ISE 455	Info Systems Engineering	4
		15

Spring

ISE Elective ⁵	4
Engineering Science Elective ⁶	4
Tier I Junior English Req't	4
Business Elective ⁴	
	16

Senior Year (49 credits)

Fall

ISE Elective ⁵	3
Engineering Science Elective ⁶	3
Prof. Concentration Elective ⁷	3
Business Elective ⁴	4
Math/Science Elective ²	4
	17

Winter

ISE 445A	Systems Design I	3
	Engineering Science Elective	4
	Prof. Concentration Elective ⁷	3
	Prof. Concentration Elective ⁷	3
	Free Elective ⁸	3
		16

Spring

ISE 445B*	Systems Design II	3
	Prof. Concentration Elective ⁷	4
	Prof. Concentration Elective ⁷	4
	Free Elective ⁸	4
		15

Elective Options

1) Chemistry Elective (complete 1):

- CHEM 121 Principles of Chemistry I (4)
- CHEM 150 Concepts in Chemistry (4)
- CHEM 151 Fundamentals of Chemistry I (5)

2) Math/Science Elective (complete 3—minimum 12 credits):

- BIO5 103 Human Biology Basic Principles (5)
- CHEM 122 Principles of Chemistry II (4)
- CHEM 152 Fundamentals of Chemistry II (5)
- CHEM 123 Principles of Chemistry III (4)
- CHEM 153 Fundamentals of Chem III (5)
- MATH 263D Calculus IV (4)
- MATH 340 Differential Equations (4)
- MATH 410 Matrix Theory (4)
- MATH 411 Linear Algebra (4)

3) Communications Elective (complete 1):

- COMS 103 Public Speaking (4)
- THAR 113 Acting Fundamentals (4)

4) Business Elective (complete 3):

- ECON 104 Macroeconomics (4)
- ACCT 101 Financial Accounting (4)
- ACCT 102 Managerial Accounting (4)
- BUSL 255 Law and Society (4)
- MGT 202 Management (4)
- MKT 202 Marketing Principles (4)

5) ISE Elective (complete 11 credits):

- ISE 402 Manufacturing Systems (4)
- ISE 403 Material Handling Systems (4)
- ISE 407 Intro to Designed Experiments (3)
- ISE 440 Facility Planning and Design (4)
- ISE 442 Inventory and Mfg. Control II (3)
- ISE 444 Applications of Math Prog. (3)
- ISE 448 Man-Machine Systems (3)
- ISE 456 Database Systems (4)
- ISE 460 Computer Integrated Mfg. (4)
- ISE 489 Special Investigations (variable)

• If a Professional Concentration Area (see #7 below) requires more than 17 credits, the additional credits can be used to satisfy requirements for ISE electives.

• Up to 1 non-ISE course may be counted as an ISE elective (with permission) if that course appears in a Professional Concentration Area other than the one you are pursuing. However, you must have a minimum of 17 total engineering credits between your ISE Electives and your PCA Electives.

6) Engineering Science Elective (Complete 11 credits):

Any course from ChE, CE, EE, or ME that is 200-level or above, except CE 200, 201, 210.; ME 288, 388, 488. Courses taken to satisfy Professional Concentration Area Requirements (see #7) cannot be used to also satisfy the Engineering Science Requirements.

7) Professional Concentration Elective (complete all courses in one of the Professional Concentration Areas listed below):Industrial Engineering (17 credits)

- ISE 407 Intro to Designed Experiments (3)
- ISE 440 Facility Planning and Design (4)
- ISE 442 Inventory and Mfg. Control II (3)
- ISE 448 Man-Machine Systems (3)
- IT 117 Basic Metal Machining (4)
or IT 110 Intro to Mfg. Processes

Manufacturing (19 credits)

- ISE 402 Manufacturing Systems (4)
- ISE 440 Facility Planning and Design (4)
- ISE 442 Inventory and Mfg. Control II (3)
- ISE 460 Computer Integrated Manuf. (4)
- IT 117 Basic Metal Machining (4)
or IT 110 Intro to Mfg. Processes

Supply Chain Management (18 credits)

- ISE 403 Materials Handling Systems (4)
- ISE 407 Intro to Designed Experiments (3)
- ISE 440 Facility Planning and Design (4)
- ISE 442 Inventory and Mfg. Control II (3)
- MKT 404 Logistics and Supp. Chain Mgmt (4)

Information Systems (20–22 credits)

- ET 181 Computer Methods I (4)
or CS 230 Computer Programming I (5)
- ISE 456 Database Information Systems (4)
- ISE 490 Systems Development Project (4)
- IT 354 Automatic Identification (4)
- IT 337 Mfg. Networks/Data Comm. (4)
or CS 444 Data Communications (5)

Health Care Systems (18 credits)

- IH 200 Intro to Industrial Hygiene (4)
or EH 260 Intro to Environmental Health (4)
- HLTH 335 Admin. of Acute Care Facilities (4)
or HLTH 340 Contemporary Problems in Health Care Organizations (4)
- HLTH 230 Medical Terminology (2)
- ISE 403 Materials Handling Systems (4)
- ISE 440 Facility Planning and Design (4)

Human Factors (19 credits)

- BIOS 203 Human Biology II (4)
- BIOS 204 Human Biology II Lab (1)
- EH 260 Intro to Environmental Health (4)
- EH 457 Occ. Safety and Health Admin. (4)
- ISE 407 Intro to Designed Experiments (3)
- ISE 448 Man-Machine Systems (3)

Facility Planning and Development (18 credits)

- ISE 440 Facility Planning and Design (4)
- CE 316 Construction Engr. and Mgmt. (3)
- CE 330 Structural Theory I (5)
- CE 416 Construction Estimating (3)
- CE 418 Construction Administration (3)

8) Free Elective (complete 7 credits):

Free elective credits may be satisfied by any course; a sufficient number of free electives are needed to reach the University minimum of 192 credits earned for a degree. One of the credits from each 5-credit Math/Science Elective course that is taken will be counted toward the Free Elective requirements.

*NOTE: ISE 445A and 445B fulfill the University Tier III requirement.

Industrial Technology

Bachelor of Science in Industrial Technology

Major code BS7256

Industrial technology is the study of materials, production processes, and management procedures used in manufacturing. This degree program prepares you for a technical/ management position in the manufacturing industry by providing current and relevant subject matter and experience. Typically, an industrial technology graduate is responsible for management and supervision of industrial computers, materials, machines, and personnel in areas of production, process planning, maintenance, and quality assurance.

The industrial technology program prepares you to be a technical generalist: one who is competent in a wide range of technical subjects. In addition, since most industrial technology courses are hands-on lab courses, you graduate

with practical experience. All students in the program complete a common core of industrial technology courses. In addition, you must take courses in one of three technical focus areas: Manufacturing Materials and Processes (MMP), Manufacturing Information Technology (MIT), or Manufacturing and Technical Sales (MTS); depending on your interests and career goals. The BSIT degree includes a minor in business.

There are four components to the curriculum: technical, general education, business, and elective courses. Each component contributes a valuable part to your overall preparation for employment.

A minimum of 192 quarter hours is required for graduation, including the following specific requirements:

Required Industrial Technology Core: 66

IT 100	Intro to Industrial Tech.	1
IT 101	Engr. Graphics Fund	3
IT 102	Engr. Graphics App.	4
IT 103	Computer Apps. in Industrial Tech.	4
IT 111	Manufacturing Materials	4
IT 112	Intro to Manufacturing	4
IT 206	Computer Methods in Industrial Tech.	4
IT 208	Industrial Plastics	4
IT 216	Metal Machining	4
IT 218	Metal Fabricating and Casting	4
IT 221	Power Transmission	4
IT 303	Apps. of Object Oriented Programming	4
IT 332	Industrial Electronics	4
IT 363	Quality Assurance	4
IT 400	Senior Seminar	1
IT 435	Industrial Instrumentation and Controls	4
IT 452	Contemporary Integrated Manuf.	4
IT 462	Product Manufacturing*	5

*IT 462 is a Tier III equivalent course.

Technical Focus

(must select from one of the following areas):

Manufacturing Materials and Processes: 24

IT 217	Prod. Metal Machining	4
IT 320	Hydraulic and Pneumatics	4
IT 362	Product Documentation	4
IT 351	Production Tooling	4
	IT Electives ¹	8

Manufacturing Information Technology: 24

IT 230	Manufacturing Computer Technology	4
IT 231	Manufacturing Database Applications	4
IT 337	Manuf. Networks and Data Comm.	4
IT 354	Automatic Ident. and Data Capture	4
	IT Electives ¹	8

Manufacturing and Technical Sales: 24

MKT 358	Professional Selling Techniques	4
MKT 458	Sales Management	4
MKT 498	Internship	4
MKT 425 or MKT 491	Business to Business Marketing Seminar in Sales	4 4

¹Any IT course not otherwise required may be used as an IT elective, with the exception of IT service courses (IT 104, 110, 117, 220, 222). Courses required for one focus area may be used as electives under the other focus area.

General Education Requirements: 64

ENG 151	Freshman Composition	5
ENG 305J	Technical Writing	4
COMS 103	Public Speaking	4
MATH 163A	Intro to Calculus	4
MATH 250, 251	Intro to Probability and Statistics	8
CHEM 121, 122	Prin. of Chemistry	8
PHYS 201, 202	Intro to Physics	10

ECON 103	Prin. of Microeconomics	4
PSY 101	General Psychology	5
Global Perspective	Select one course from approved list	4
Tier II	Select from Applied Science and Tech., or Humanities and Fine Arts	4

Business Management: 20

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4
MGT 202	Management	4
MKT 202	Marketing Principles	4

Electives: 14**Advanced Standing**

A student must be admitted to advanced standing in order to register for Industrial Technology courses at the 200 level or above. To be eligible for advanced standing, a student must complete the following courses with a minimum cumulative g.p.a. of 2.5:

ENG 151 or 152 or 153 or COMS 103
MATH 163 or 263A or MATH 250
CHEM 121 or 151 or PHYS 201 or 251
ACCT 101 or MGT 202 or ECON 103
IT 100, IT 101, IT 103 (or MIS 201 or CS 120), IT 111, and IT 112

Associate's Degree Transfer Students

If you have completed a two-year associate's degree in a related technical subject area from an accredited college or university, you may enter the Industrial Technology program with junior standing. An assessment of previous coursework will determine the remaining requirements for the bachelor's degree.

First-Year Program

The following courses are suggested for your freshman year. Your advisor will help you plan additional coursework to meet all graduation requirements in a timely manner.

Fall		
IT 100	Intro to Industrial Technology	1
IT 101	Engr. Graphics Fundamentals	3
IT 103	Computer Applications in Ind. Tech.	4
CHEM 121	Principles of Chemistry	4
COMS 103	Fund. of Public Speaking	4
Winter		
IT 102	Engr. Graphics Applications	4
IT 111	Manufacturing Materials	4
CHEM 122	Principles of Chemistry	4
ACCT 101	Financial Accounting	4
Spring		
IT 112	Introduction to Manufacturing	4
ECON 103	Principles of Microeconomics	4
ENG 151	Freshman Composition	5
MATH 163A	Introduction to Calculus	4

Mechanical Engineering**Bachelor of Science in Mechanical Engineering
Major code BS7257**

Ohio University's Mechanical Engineering program has four educational objectives:

1. Prepare graduates for engineering careers and advanced education
2. Graduate mechanical engineers with technical skills
 - including a grasp of engineering knowledge and an ability to apply knowledge to solve contemporary engineering problems
3. Graduate mechanical engineers with skills to perform in the work environment
 - including technical communication, teamwork, and decision making
4. Graduate mechanical engineers who are informed and aware of contemporary issues and the impact of engineering on society.

These objectives are consistent with and embrace ABET Criteria 2000 Outcomes.

Mechanical engineering is an extremely diverse profession which is concerned with (1) the economical and ecological conversion of energy from natural sources to provide power, heating, cooling, and propulsion; (2) the design of all types of machines, engines, and vehicles; (3) the processing of materials into useful products; and (4) the development of systems for using machines and resources. Professional activities include research, development, design, testing, production, operation and maintenance, marketing and sales, technical management and administration.

The mechanical engineering curriculum is designed to provide a solid foundation in higher mathematics, physics, and chemistry followed by extensive instruction in all of the classical mechanical engineering disciplines. The curriculum contains a significant amount of design content wherein students are required to apply their engineering skills to solve real-world and/or open-ended problems in a project format. The principal objectives of the design experience are 1) to allow students to use their own creativity in formulating alternative engineering solutions; 2) to develop an ability to work independently and/or in teams which is an important skill for continued growth as a practicing engineer; 3) to bridge the gap between the acquisition of engineering knowledge in required courses and the application of that knowledge to solve engineering problems. The objectives of the design experience are consistent with the department's overall objective of producing highly competent engineers with an ability to formulate and solve real engineering problems.

The design experience begins in freshman year (ME 101) wherein students are introduced to elements of engineering design. This often involves the design and construction of a device to perform a specified task. Throughout the sophomore, junior, and senior years, mechanical engineering students are required to solve design problems in many of the required engineering courses and across the spectrum of disciplines encompassed by the mechanical engineering profession. Senior mechanical engineering students are challenged in a sequence of three formal design courses (ME 470, 471, 472) involving a capstone senior design project which begins in ME 470 and culminates in ME 472. The capstone project requires application of engineering knowledge in thermal/fluid sciences, structures and motion analysis, engineering materials, engineering economy and social issues such as product safety and reliability. Students are required to submit written technical reports as well as give oral presentations describing project results. This is in accord with the department's objective of producing engineers who have good communication skills as well as excellent technical skills. The design experience is enhanced by providing students with technologically modern lab facilities and computational tools.

In addition to engineering courses, the department requires significant studies in the humanities and social sciences to establish a breadth and depth of awareness and education. Advanced courses in both the humanities and social sciences are required. The humanity and social science requirements are consistent with the department's objective of graduating individuals with a well-rounded education.

The Department of Mechanical Engineering prides itself on offering students a close working relationship with the faculty. Mechanical engineering faculty are required to set aside office hours to assist students with class assignments. In addition, each student who enters the program is assigned one of the mechanical engineering faculty members as an

academic advisor who will meet quarterly with the student to assist in course scheduling.

If you are majoring in mechanical engineering as preparation for entry into another profession such as law, medicine, business, etc., consult with the department chair regarding modifying your schedule to meet specific career objectives.

The Department of Mechanical Engineering offers a co-op program that allows you to acquire practical experience and income by working in industry after completing your freshman year. Sophomore and junior courses are scheduled to accommodate a work-academics plan based on alternate periods of study and work. Consult the co-op office if you are interested.

An honors program for students with 90 or more hours and in the top 20% of their class provides the opportunity to receive graduate credit for coursework throughout your senior year. Contact the department office for further information.

The Paul H. and Irene C. Black Memorial Fund provides a large number of generous scholarships for seniors majoring in mechanical engineering. A good academic record, a history of work to cover the cost of education, and participation in departmental activities are key considerations in awarding the scholarship. Contact the department office for additional information.

Freshman

Fall

IT 101	Engr. Graphics Fund.	3
MATH 263A	Calculus I ¹	4
ME 101	Freshman Gateway Course	4
	Eng. Composition ²	5

Winter

ET 181	Computer Meth. in Engr. I	4
COMS 103	Public Speaking	4
MATH 263B	Calculus II	4
PHYS 251	Gen. Phys.	5

Spring

CE 220	Statics	4
MATH 263C	Calculus III	4
PHYS 252	Gen. Phys.	5
	Hum. or Soc. Sci. Elective ³	4

Sophomore

Fall

ME 224	Dynamics	4
MATH 263D	Calculus IV	4
PHYS 253	Gen. Phys.	5
EE 313	Basic EE I	3
EE 304	Basic EE I Lab	1

Winter

CHEM 151	Fund. of Chemistry I ⁴	5
MATH 340	Diff. Eqs	4
EE 314	Basic EE II	3
EE 305	Basic EE II Lab	1
	Hum. or Soc. Sci. Elective	4

Spring

ME 321	Intro to Thermodynamics	4
MATH 344	Num. Meth for CE	4
IT 117	Basic Metal Mach.	4
CHEM 152	Fund. of Chem. II	5
ME 288	Data Analysis Lab	2

Junior

Fall

CE 340	Fluid Mechanics	4
CHE 231	Prin. of Eng. Materials	4
ME 301	Kinematics	4
ME 388	Junior Lab	4

Winter

	Junior Composition ⁵	4
ME 303	Machine Design Analysis	4
ME 314	Intro to Manufacturing Proc.	4
ME 491	Mech. Vibrations I	4
CE 223	Strength of Materials Lab	1

Spring

CHE 418	CHE Lab-Materials	2
ME 401	Syst. Analysis and Controls	4
ME 328	Applied Thermodynamics	4
ME 304	Machine Design Elements	4
ME 351	Computer Aided Design I	3

Senior

Fall

ME 412	Heat Transfer	4
ME 470	ME Design I ⁶	4
	Technical Elective ⁷	4
	Hum. or Soc. Sci. Elective	4

Winter

ME 471	ME Design II	4
ME 488	Exper. Des. Lab	2
ME 451	Computer Aided Design II	2
	Technical Elective	4
	Hum. or Soc. Sci. Elective	4

Spring

ME 472	ME Design III ⁸	4
	Elective	4
	Technical Elective	4

¹Students must qualify to take this course by passing a placement test.

²The level and the quarter this course is offered is determined by a placement test taken during the Precollege orientation session.

³At least eight hours of Tier II humanities and eight hours of Tier II social science are required.

⁴Students must qualify to take this course by passing a placement test.

⁵Students may take this course any quarter upon completion of 90 hours.

⁶ME 470, 471, and 472 must be taken in sequence beginning in the fall quarter of the senior year.

⁷Each student must complete at least 11 hours of technical electives, with at least 3 hours from ME. Technical electives are any engineering course at the 300-level or above, or any course in math or physics at the 400 level.

⁸ME 472 fulfills the University Tier III requirement.

College of Fine Arts

<http://www.finearts.ohio.edu/>
Jennings House

Chuck McWeeny
Dean

Norma J. Humphreys
Assistant Dean

Donna Conaty
Associate Dean

The College of Fine Arts includes the Schools of Art, Dance, Film, Interdisciplinary Arts, Music, and Theater. The College offers a broad cultural education in the fine arts, as well as specialized training in a wide range of career fields.

Schools and Programs

The School of Art, located in Seigfred Hall, offers degree programs in art history, ceramics, graphic design, painting, photography, printmaking, and sculpture.

The School of Dance, located in Putnam Hall, offers a single preprofessional degree program in dance. A limited number of exceptional students may be approved to pursue work in dance through the Honors Tutorial College.

The School of Film, located in Lindley Hall, does not offer an undergraduate degree program. You may, however, earn a minor in film, and many undergraduate film courses are available, some of which may be used to fulfill specific degree requirements. A limited number of exceptional students may be approved to pursue work in film through the Honors Tutorial College.

The School of Interdisciplinary Arts, located in Lindley Hall, does not offer an under-graduate degree program. You may, however, earn a minor in interdisciplinary arts, and many undergraduate interdisciplinary arts courses are available, some of which may be used to fulfill specific degree requirements.

The School of Music, located in the Robert Glidden Hall, offers degree programs in music composition, music history and literature, music education, music theory, music therapy, orchestral instruments, organ, piano, piano pedagogy, and voice.

The School of Theater, located in Kantner Hall, offers degree programs in production design and technology, management, playwriting, and theater performance (acting).

Double Majors

If you wish to pursue a second major outside the College of Fine Arts, apply for admission to the college offering the second major. See "A Second Bachelor's Degree" in the Graduation Requirements section of this catalog for specific requirements.

You may wish to pursue two majors within the College of Fine Arts simultaneously, earning a dual major degree. You must be admitted to and complete all requirements for each of the majors.

Minors

Minors are available in art, dance, film, interdisciplinary arts, music, and theater. The minors are designed for students majoring in other fields who wish, in the course of their formal education, to pursue study in the arts. Specific requirements for each minor can be found in this section following the requirements for majors in each school.

If you wish to declare a minor in the College of Fine Arts, consult with both your major advisor and an advisor within the minor program.

If you are a major in the College of Fine Arts and wish to pursue a minor offered by another school or department within the University, consult that school or department's section of the catalog.

Admission Requirements

High school applicants to Ohio University who wish to pursue a degree program in the College of Fine Arts may apply for direct entry into the College. You may enter the School of Art as a general art major. Entry into a degree program in the School of Art requires the successful completion of a portfolio review which usually occurs during the sophomore year. You may enter the School of Theater as a general theater major. Entry into a degree program in the School of Theater requires the successful completion of an audition/interview, which occurs during spring quarter of the freshman year. You are required to audition if you desire direct entry into programs in the School of Dance or the School of Music. For final acceptance into a major program, you must meet all entrance requirements described under that major.

To transfer from another college or university, you are required to audition, submit a portfolio, or meet the requirements specified by each program in the College of Fine Arts in addition to gaining admission to Ohio University. Write to the director of the particular program in which you are interested for detailed information.

Ohio University students requesting transfer to major programs in the college also are required to meet the above criteria and should consult the appropriate school before applying for transfer.

Scholarships and Awards

A limited number of scholarships and awards of varying amounts are available to majors in the College of Fine Arts. Some awards are renewable; others are granted on a one-time basis, renewable at the discretion of the school involved. Awards are based primarily on talent demonstrated through audition, interview, and/or portfolio submission. In each case, academic performance is considered important. Contact the director of the appropriate school before January 1 to arrange an audition or portfolio submission.

Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "Academic Opportunities—University Wide" section.

Advising

The College of Fine Arts maintains a system of academic advising for its majors, with assigned members of the faculty serving as advisors. Maintain ongoing contact with your advisor for assistance with concerns related to academic and career planning. Your advisor will assist you with an appropriate selection of courses each quarter as you prepare your schedule. It is especially important that you work closely with your advisor to maintain the proper sequence of courses in your major. Deviations from the normal course requirements, including waivers and/or substitutions, must be approved in writing by your advisor and the Dean's Office. In some cases additional approval by a faculty committee is required.

Although your advisor will be helpful in assisting you with the preparation of your schedule, it is **your responsibility** to make certain that all graduation requirements are met.

Academic Probation

Students who are placed on academic probation during their first year are required to complete an Academic Success workshop. The 90-minute workshop aims to help students improve their academic performance and return to good academic standing. Information about the workshop is sent to students' local addresses and University e-mail accounts. Students should also arrange to meet with their assigned academic advisor to get further help on ways to improve their academic situation.

Degrees and Requirements

The Bachelor of Fine Arts (B.F.A.) degree is granted upon completion of programs in the School of Art, the School of Dance, and the School of Theater. The School of Music grants the Bachelor of Music (B. Mus.) degree.

All programs of study within the College of Fine Arts are intended to provide students with a strong foundation in the arts and culture, as well as an opportunity for specialized professional training. Every effort is made through careful individual advising and a flexible curriculum to meet the individual needs of each student.

If your qualifications are outstanding, certain courses may be waived from the proposed program of study. You may request of your advisor a review of qualifications for course waiver. In some cases, additional approval by a faculty committee is required.

Candidates for degree programs in the College of Fine Arts must complete a minimum of 192 quarter hours with an accumulative grade-point average (g.p.a.) of at least 2.0. The minimum number of quarter hours and accumulative g.p.a. for some degree programs is higher.

B.A. Degree and Requirements

Degree Requirements for Bachelor of Arts (B.A.)

General requirements for a B.A. are (a) a minimum of 192 quarter hours, including (b) 90 hours of Arts and Sciences coursework above the 199 level; (c) the equivalent of two years of college-level foreign language; (d) at least 18 hours each of humanities, social sciences, and natural sciences coursework; (e) General Education Requirements—Tiers I, II, III—and (f) all requirements stipulated by the department for the chosen major. Minors are optional.

A minimum of 192 quarter hours of credit is required for a B.A. degree. Policy does not allow an accumulation of more than 72 hours in any one major for a B.A. without a penalty against the total hours to graduate. Any hours earned in excess of the stated maximum for the major will necessitate earning equivalent credit hours over 192.

B.A. Degree Language Options

The foreign language requirement for B.A. degree candidates is the successful completion of a two-year sequence of

study of one language from level 111 through level 213.

Two years of high school language are considered the equivalent of one year of college language. According to your preference, however, your two years of college-level study may be a language other than the one studied in high school.

For the B.A.:

Zero to one year of high school language must complete two years of one foreign language at the college level.

Two to three years of one high school language must complete the intermediate level (i.e., second year) 211–213, of the same language or, if you prefer, two years (111–213) of a language different from the one studied in high school.

Four or more years of one high school foreign language must complete level 213 or 341 or higher in the same language.

Four years of high school Latin may complete LAT 351 rather than LAT 213. LAT 351 is recommended.

Foreign Language Requirement for Transfer Students

The College of Fine Arts requires that all candidates for a B.A. degree successfully complete two years of foreign language at the college level, or the equivalent. The table below explains how transfer credit for foreign language courses is evaluated.

SEMESTER HOURS:

A. The B.A. degree requires 24 quarter hours (2 years) of one foreign language. Students who have completed 16 semester hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will receive credit for 24 quarter hours (2 years of instruction) and fulfill their foreign language requirement.

B. Students who have completed 8 semester hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will receive credit for 12 quarter hours and would fulfill one year of their foreign language requirement..

C. Students who have completed 6 semester hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will receive credit for 9 quarter hours and need to make up 3 quarter hours to complete one year of foreign language as required by the degree program.

QUARTER HOURS

The B.A. degree requires 24 quarter hours (2 years) of one foreign language.

A. Transfer students who have completed 24 quarter hours of one foreign language will receive credit (contingent upon the courses being equivalent in content (as determined by the College) for 2 years of instruction and would fulfill their foreign language requirement.

B. Students who have completed 12 quarter hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), will fulfill one year of their foreign language requirement.

C. Students who have completed 9 quarter hours of one foreign language, contingent upon the courses being equivalent in content (as determined by the College), would need to take an additional 3 quarter hours at Ohio University to fulfill one year of foreign language. **FURTHER:**

D. If you are transferring 9 quarter hours of language credits, you must complete your foreign language requirement by doing the following:

a. Take the language placement test in Spanish, German, or French, offered by the Department of Modern Languages. For other languages, contact Modern Languages Department to arrange a placement test.

b. If your placement score indicates an achievement level comparable to the 113 or 213 level of that language, you must complete either 113 or 213 at Ohio University.

c. If your placement score is above 113 or 213 of that language, the College will waive the deficient 3 credit hours and accept 9 credits as equivalent to 12 credits, to fulfill the first or second year series. (Transfer credits maintain their 3 hour credit value.)

Area Distribution Requirements**Humanities Area Requirement***

The humanities requirement may be met by selecting 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a** African American Studies 106, 110, 150, 210, 211, 250, 310, 317, 350, 352, 353, 355, 356
- b** Art History
- c** Classical Archaeology except 211, 212, 213
- d** Classics in English
- e** Communication Studies 351, 352, 353
- f** Dance 170, 351, 352, 353, 370, 471, 472, 473
- g** English except 150, 151, 152, 153, 153A, 153B, 451, 452
- h** Foreign language courses other than those used to complete the foreign language requirement and except JPN 341
- i** History 121, 122, 123, 314A-G, 328, 328A, 329A-C, 330, 331, 350A, 351, 352, 353A-C, 354A-B, 354B, 356A-C, 357, 360A-B, 370, 389
- j** Humanities 107, 108, 109, 117, 307, 308, 309
- k** Interdisciplinary Arts
- l** International Literatures in English–
International Literature: Linguistics and
International Literature: Modern Languages
- m** Modern Languages 370J

- n** Music / Music Literature 120, 124, 125, 150, 321-3, 427, 428
- o** Philosophy except 120
- p** Theater 150, 270, 271, 272
- q** University Professor 150–152H, 450–452H
- r** Women's Studies except 360
- s** World Religions

Social Sciences Area Requirement*

The social sciences requirement may be met by a selection of 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a** African American Studies 101, 202, 220, 225, 254, 340, 341, 345, 346, 360, 368, 440, 482
- b** Anthropology except 201, 346, 355, 447, 448, 492, 496
- c** Business Law 255, 442, and 475
- d** Classical Archaeology 211, 212, 213
- e** Economics
- f** Geography except those listed under natural sciences (see below)
- g** History except those listed under humanities (see above)
- h** International Studies 103, 113, 118, 121
- i** Japanese 341
- j** Linguistics
- k** Political Science
- l** Psychology except 120, 221, 226, 312, 314, 321
- m** Social Work
- n** Sociology
- o** University Professor 150–152S, 450–452S
- p** Women's Studies 360

Natural Sciences Area Requirement*

The natural sciences requirement may be met by selecting 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a** Anthropology 201, 346, 355, 447, 448, 492, 496
- b** Astronomy
- c** Biological Sciences except 217
- d** Chemistry except 115
- e** Computer Science except 120, 135, 190, 220, 350
- f** Environmental and Plant Biology except 217
- g** Geography 101, 202, 302, 303, 304, 305, 315, 316, 358, 406, 407, 411, 417, 418, 476
- h** Geological Sciences
- i** Mathematics except 101, 102, 109, 113, 115, 117, 118, 120, 121, 122, 320, 320L
- j** Physical Sciences
- k** Psychology 221, 226, 312, 314
- l** Physics
- m** University Professor 150–152N, 450–452N

Note: Methods courses are not applicable to area requirements.

* These listings must be used as the official guide for the completion of the area (distribution) requirements. Exceptions to the 18-hour area distribution requirements will be made only under the most unusual of circumstances and by petition only.

Some courses from these categories may also be applied to the University Tier II requirements. However, the three area categories differ in scope from the five Tier II groupings (Humanities and Fine Arts, Natural Sciences and Mathematics, Social Sciences, and Cross-Cultural Perspectives). If you wish to select a course that will apply to both the area and Tier II requirements, take care to choose a course that has been approved for the desired category in both the College and the University listings. (The list of courses approved for Tier II categories appears in the Graduation Requirements section of the catalog.) Most courses that can fulfill Tier I quantitative skills and freshman composition requirements and the Tier III requirement do not apply to the area distribution requirements. Exceptions include MATH 163A, 163B, and PSY 221.

Level of Study Requirement

(Hours at the 200 level or above)

Within the total hours applied to the degree, at least 90 quarter hours of courses must be above the freshman level (numbered above 199). These courses are listed earlier in this section under humanities, social sciences, and natural sciences, and include foreign languages, courses from the department major, and courses taught by faculty in the College of Fine Arts or Arts and Sciences intended to meet the junior composition or Tier III requirement.

Single Application of Credit and Exceptions

Excluding the exceptions listed below, no course may satisfy more than one of the area requirements in foreign language, humanities, social sciences, or the major requirement. For example, a theater major may not apply any courses in theater toward the humanities requirement. Courses that fulfill freshman General Education Tier I requirements or Tier III will not apply to the distribution area requirement.

Exceptions are: MATH 163A, 163B, and PSY 221 (will fulfill the Tier I quantitative requirement, as well as the natural science area).

Courses required for a major, but outside the major department (extra-departmental) will be counted toward the area requirements.

Courses required for a minor will be counted toward the area requirements.

Junior-level advanced composition courses offered by departments within the College of Fine Arts or Arts and Sciences apply to the distribution area requirements except when they are required for the major.

School of Art

Robert Lazuka, Director

The School of Art is a community of artists and scholars dedicated to exploration and education in the visual arts. Our goal is to prepare graduating students for professions as artists, teachers, or professionals in related fields, as well as for admission to graduate programs. Our nationally acclaimed faculty members were chosen for expertise in their fields of study, as well as for their dedication to teaching. The six schools that compose the College of Fine Arts offer a wide variety of cultural opportunities in fine arts, dance, music, theater, film, and interdisciplinary arts. Situated in the foothills of the Appalachian Mountains, the beautiful Hocking River runs through the campus and the city of Athens. The community affords a number of options for outdoor and indoor recreation and entertainment. Two annual favorites are the "Columbus to Athens Fall Classic" bicycle marathon and the "Athens International Film

Festival." Three Study Abroad Programs extend our reach to Mexico, England, and Italy where students can experience first-hand the art and history of different cultures.

The School of Art nurtures an interdisciplinary atmosphere in which students from many disciplines come together. Diversity in gender, culture, and ethnicity exists and is welcome within our program, just as we welcome diversity in method, style, and medium. Artists historically have borrowed from and have been influenced by other cultures, methods, and peoples. We seek out differences and celebrate them.

The Program

Students can earn a Bachelor of Fine Arts (B.F.A.) degree majoring in art history, ceramics, graphic design, painting, photography, printmaking, and sculpture. To accommodate these pursuits our facilities include an extensive range of ceramic kilns; a sculpture building, including metal working equipment, a modern foundry, and a comprehensive wood shop; painting and drawing studios; printmaking facilities with photo-silkscreen, lithography, etching and typesetting presses, digital equipment for producing large-scale prints; graphic design digital labs; extensive darkrooms, photography studios, and computers for digital imagery. Our own Visual Resource Library contains more than 200,000 images in slide form and digital files plus numerous CD's, videotapes, and books. All students have e-mail access and entry to the major collections in the Fine Arts Library located at Ohio University's Alden Library, which serves as a federal research repository and is particularly strong in Renaissance, 19th century, Oceanic, modern art, contemporary art, and the history of photography. On-campus study collections include the Kennedy Collection of Native American Art, the Kennedy Collection of African Art, the Trisolini Contemporary Print Collection, as well as exhibitions curated at the Kennedy Museum of Art. Our Visiting Artists program regularly brings to campus internationally known artists and scholars.

The Process

All students enter the art program as General Art Majors and have shared experiences during their first two years in the Foundations program. This program provides students with a basis for critical and creative thinking by giving them a broad range of experiences in the studio and in the classroom. These first two years also give students the opportunity to integrate their general education studies with their development as growing artists and scholars. Once students complete this aspect of the program most of the explorations focus upon study within the chosen area of specialization. (Students interested in becoming art history majors should consult with faculty in that area during their first year of study.) Studio areas require an exhibition of each student's art works as the crowning event in achieving the B.F.A. degree. Student achievements are acknowledged through awards presented at student exhibitions, as well as through talent and academic scholarships. These scholarships are available to both incoming and continuing students.

Advising

With a faculty of 30 members, the School of Art makes advising an integral part of the educational experience. Students are encouraged to consult regularly with advisors concerning the selection of courses and progress toward fulfilling degree requirements. Advisors also can help students determine which scholarships are available. Other resources for advising and consulting are the Student Services Coordinator, the chair of the Foundations Program, or the area chair in your major.

Opportunities

Two organizations in the School of Art round out the community by affording more opportunities for student interaction. The Undergraduate Art League (UAL) sponsors visiting artists, organizes annual juried exhibitions, and coordinates trips to major museums. The Students in Design (SID) is a student chapter of the American Center for Design (ACD). SID members sponsor design-related events, assist sophomores in portfolio preparation, and attend the annual ACD conference.

Scholarships

Talent scholarships are available to incoming first-year students. Submit portfolios of 20 slides to the School of Art Scholarship Committee, Seigfred Hall, Ohio University, Athens, Ohio 45701, by the February 1st deadline. Detailed information on portfolio requirements can be obtained from the Student Services Office at the School of Art.

Incoming students are also eligible to be considered for the Gateway award program which is based on academic achievement and/or financial need. Four other University programs based on ACT, SAT, and/or rank support multicultural students: the Templeton Scholar Award, the King/Chavez/Parks Awards, the Urban Scholars Award, and the Incentive Award. These scholarships are awarded through the Office of Student Financial Aid and Scholarships and require certain criteria in order to be renewed each year.

Once enrolled, recognition is given to art majors as they pursue their programs through the annual awarding of scholarships and prizes, including the College of Fine Arts Dean's Awards and numerous endowed funds. These funds are awarded for outstanding accomplishments at the sophomore through senior levels and are based primarily on talent. Included in the School of Art endowed scholarships are: Kenneth Clifford Memorial, John Steven Cordray Scholarship Fund, Rose Marie Darst Memorial, L.C. Mitchell Memorial, the Foster Award, Francis Paulson Family Memorial, Terry Shuchat Photography Scholarship, Walter and Sally Greene Scholarship, and the Edna Way Scholarship. Application for these scholarships must be made on line by mid-March at <http://www-sfa.chubb.ohiou.edu/>.

Work Experience

Program to Aid in Career Exploration (PACE) positions are designed to offer pre-professional experiences to undergraduates in all areas throughout the University. The School of Art faculty and administrators employ PACE students who learn as apprentices in many areas of the school. Some of these include: Graphic Designer, Studio Assistant, Slide Library Photographer, Public Relations Assistant, Studio Art Printer, Graphic Design Lab Manager, Gallery Assistant, Web Master, and Newsletter Editor. Students interested in this program must apply for PACE eligibility at the Office of Financial Aid and Scholarships. Workstudy positions are available in the School of Art. Motivated art majors frequently find internships in the Kennedy Museum of Art or in local galleries. Upper-class art majors may apply to become Art Ambassadors for the school.

Admission Requirements

If you are planning to become an art major, enter the School of Art as a general art major (major code ND5153). You need to meet the general University requirements in order to be accepted. A portfolio is required only if you are interested in applying for a scholarship or if you are a transfer student.

Major Areas and Requirements

Students must have an overall g.p.a. of 2.75 to apply to any major within the School of Art. This application should only occur after consulting with the chair of the intended major area. To maintain major status after acceptance into the major, students must maintain an overall g.p.a. of 2.75 and a g.p.a. of 3.0 within their major area of study.

Before you can graduate, you must satisfy the degree requirements of Ohio University, the College of Fine Arts, and the School of Art.

The following courses, available on regional campuses only, may not be used to fulfill specific degree requirements in the School of Art, including studio electives: ART 115A, 125, 141, and 151. School of Art majors may use these courses as free electives only.

Transfer Requirements

While the School of Art welcomes students transferring from other programs, not all students can be accepted due to limits in space and resources. Admission is selective, not guaranteed.

Transfer guidelines for students currently enrolled at Ohio University:

- Minimum requirement of a 2.75 g.p.a.
- A minimum grade of "C" is required for credit in major courses.
- Must enroll as a general art major and complete a required program of Foundations and Studio courses.
- Being a general art major does not guarantee the student will become an art major. A student must complete the prerequisite Foundations and Studio courses and submit a portfolio to a particular discipline area for faculty review before becoming an art major.
- May not enroll as a senior.
- Applications for transfer may be obtained from the student's college or the College of Fine Arts.
- Must contact the student services coordinator at the School of Art for advising during the first quarter of study.

Transfer guidelines for students attending another institution of higher learning:

- Must enroll as a general art major and complete a required program of Foundations and Studio courses or equivalent courses.
- To apply for credit for studio course work completed at another institution, submit the following:
A copy of all college transcripts, a portfolio of original work (slides or flat pieces only, all 3-D work must be in slide form) along with a self-addressed stamped envelope should be sent to the Director of Foundations, Transfer Portfolio Review, School of Art, Seigfred Hall, Ohio University, Athens, OH 45701 prior to the following evaluation dates:
May 1--Fall and Summer entries
October 1--Winter entries
February 1--Spring entries
- Applications for transfer may be obtained from the Ohio University Office of Admissions.

Returning Students

Students wishing to return to complete a program after 10 years must reapply for acceptance. Credits earned prior to re-admittance would be subject to review by the department for credit toward current major requirements.

Art History Major

Major code BF5123

In the art history program, students learn how to articulate and express their ideas about art and develop research and writing skills as tools for communicating about art. Art history majors research art in depth and may pursue graduate art history studies. Many students complete internships at galleries and museums throughout the country. To reflect the breadth and variety of art, the art history program offers a diverse, comprehensive curriculum in the history of world art. Students from across the University have opportunities to participate in summer Study Abroad programs in Italy, Great Britain, and Mexico, where they experience art monuments in their unique historical and cultural contexts.

The B.F.A. in Art History provides a strong foundation in art history and studio art, advanced courses in art history, and liberal arts electives. Art history majors enter graduate study, seek employment in museums, or work in related fields. Students are expected to arrange programs of study with assigned faculty advisors. Selection of elective courses, in particular, should be made only after consultation with an advisor.

To apply to become an Art History major, you must (1) complete and achieve a minimum 3.0 g.p.a. in two courses from the art history survey sequence; (2) have an overall academic g.p.a. of at least 2.75; (3) submit a copy of your DARS form for review and two samples of your own academic writing (one of which must be a sample from an art history course) to the Art History Chair; and (4) be prepared to discuss why you wish to declare art history as your major. Students should apply upon completion of two of the art history survey courses that include AH 211, 212, 213, and 214.

To graduate as an Art History major, you must complete at least three 100-level courses in a single foreign language with a minimum grade of C in each course, or complete one 200-level course or higher in a foreign language with a minimum grade of a B. The foreign language requirement is waived for a student who has received a score of 5 on an AP foreign language exam. Students who are non-native English speakers are not required to fulfill the foreign language requirement.

Years One and Two

General Academics

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Two Tier II Electives	8
General Electives	24
AH 211, 212, 213	12
AH 214	4
Two Tier II Electives	8
Foreign Language	12

Studio Foundations

ART 110	Seeing and Knowing Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4

Select two of the following studios:

ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

Junior Year

Art History Courses (300/400 level)	4-12
One Studio Course	5
Tier I English Comp (300 Level)	5
Tier II Electives	9
General Electives	12

Senior Year

Four Art History Electives (300/400 Level)	16
One Studio Course	5
Tier II	5
Tier III or Tier III Equivalent (AH 460 for Art History majors)	4
General Electives	16

Total minimum hours required: 192

Studio Majors

Ceramics—Major code BF5127

Graphic Design—Major code BF6321

Painting—Major code BF5124

Photography—Major code BF5143

Printmaking—Major code BF5128

Sculpture—Major code BF5126

The B.F.A. degree program with a major in one studio area provides extensive study in a single discipline. Studio majors find success as professional artists or graphic designers, enter graduate schools, or work in related art and design fields.

All art students enter the program as General Art majors and share common requirements in general academics, studio Foundations, and Art History. To become a major in ceramics, graphic design, painting, photography, printmaking, or sculpture, a portfolio of studio work must be submitted for review at the end of the sophomore year. Students may apply to more than one area, but are encouraged to dedicate their studies to only one, after passing review. Some major areas have portfolio reviews only in the spring, while others have them each quarter. Consult area faculty for specific dates and criteria for review.

Ceramics Major—Major code BF5127

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the B.F.A. degree program.

General Academics

Years One-Four

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective or Tier III Equivalent (not needed before portfolio review)	4-5

Studio Foundations

Years One-Two

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

Art History

Select three courses from:

AH 211, 212, 213	History of Art	12
or AH 214	History of Non-Western Art	

Studio Requirements

Five 200-level Studio Courses* (at least two ceramics courses required to apply for major)	25
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Portfolio Review for Admission to Major occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Students must have an overall g.p.a. of 2.75 to apply to any major within the School of Art. This application should only occur after consulting with the chair of the intended major area. To maintain major status after acceptance into the major, students must maintain an overall g.p.a. of 2.75 and a g.p.a. of 3.0 within their major area of study. Consult the area chair for details on the portfolio requirements in your area of interest.

Ceramics Studio Courses

Year Two

(10 of the 15 hours required must be taken before the portfolio review)

ART 221	Intro to Ceramics I	5
ART 222	Intro to Ceramics II	5
ART 223	Intro to Ceramics III	5

Year Three

ART 321	Intermediate Ceramics I	5
ART 322	Intermediate Ceramics II	5
ART 323	Intermediate Ceramics III	5

Year Four (at least 10 hours required.)

ART 421A	Advanced Ceramics	5
ART 422A	Ceramics Workshop (may be taken twice)	5-10

Senior Studio Requirements

ART 495C ¹	Ceramics Studio Practicum	3
ART 496C ¹	Ceramics Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
	Two Art History Electives (300-400 level)	8

¹ Art 495C and 496C combine to meet Tier III requirement for Ceramics majors.

Total minimum hours required: 192

*Some of these credits will apply toward the 35 hours of required studio electives.

**Some of these credits are gained prior to Portfolio Review.

Graphic Design—Major code BF6321

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the B.F.A. degree program.

General Academics

Years One-Four

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective or Tier III Equivalent (not needed before portfolio review)	4-5

Studio Foundations

Years One-Two

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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Studio Requirements

Five 200-level Studio Courses* are required to apply for major, three of which must be ART 250, ART 251, and ART 255.

Portfolio Review for Admission to Major occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Applicants must have a 3.0 minimum g.p.a. in all graphic design courses

and a minimum of 3.0 overall. These averages must be maintained to retain major standards. Consult the area chair for details on the portfolio requirements in your area of interest.

Graphic Design Studio Courses

Year Two

ART 250	Design Principles	5
ART 251	Typography	5
ART 255	Form and Content	5

Year Three

ART 351	Graphic Design: Junior Studio	5
ART 352	Graphic Design: Junior Studio	5
ART 353	Graphic Design: Junior Studio	5

Year Four

ART 451	Graphic Design: Senior Studio	5
ART 452	Graphic Design: Senior Studio	5
ART 495D ¹	Graphic Design: Studio Practicum	3
ART 496D ¹	Graphic Design: Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
	Two Art History Electives (300-400 level)	8

¹ Art 495D and 496D combine to meet Tier III requirements for Graphic Design majors.

Total minimum hours required: 192

*Some of these credits will apply toward the 35 hours of required studio electives.

**Some of these credits are gained prior to Portfolio Review.

Painting—Major code BF5124

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the B.F.A. degree program.

General Academics

Years One-Four

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective or Tier III Equivalent (not needed before portfolio review)	4-5

Studio Foundations

Years One-Two

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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Studio Requirements

Five 200-level Studio Courses* (at least two painting courses required to apply for major) 25

Portfolio Review for Admission to Major occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Students must have an overall g.p.a. of 2.75 to apply to any major within the School of Art. This application should only occur after consulting with the chair of the intended major area. To maintain major status after acceptance into the major, students must maintain an overall g.p.a. of 2.75 and a g.p.a. of 3.0 within their major area of study. Consult the area chair for details on the portfolio requirements in your area of interest.

Painting Studio Courses

Year Two

ART 275A	Basic Painting I	5
ART 276A	Basic Painting II	5

Year Three

ART 375A	Intermediate Painting I	5
ART 376A	Intermediate Painting II	5
ART 377A	Intermediate Painting III	5

Year Four

ART 475A	Advanced Painting I	5
ART 476A	Advanced Painting II	5
ART 477A	Advanced Painting III	5
ART 495P ¹	Painting Studio Practicum	3
ART 496P ¹	Painting Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
	Two Art History Electives (300-400 level)	

¹ Art 495P and 496P combine to meet Tier III requirement for Painting majors.

Total minimum hours required: 192

*Some of these credits will apply toward the 35 hours of required studio electives.

**Some of these credits are gained prior to Portfolio Review.

Photography—Major code BF5143

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the B.F.A. degree program.

General Academics**Years One-Four**

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective or Tier III Equivalent (not needed before portfolio review)	4-5

Studio Foundations**Years One-Two**

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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Studio Requirements

Five 200-level Studio Courses* (at least two photography courses required to apply for major)	25
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Portfolio Review for Admission to Major occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Students must have an overall g.p.a. of 2.75 to apply to any major within the School of Art. This application should only occur after consulting with the chair of the intended major area. To maintain major status after acceptance into the major, students must maintain an overall g.p.a. of 2.75 and a g.p.a. of 3.0 within their major area of study. Consult area chair for details on the portfolio requirements in your area of interest.

Photography Studio Courses**Year Two**

(10 of the 15 hours required must be taken before the portfolio review.)

ART 281	Photography I: Black and White	5
ART 282	Photography II: Color	5
ART 283	Photography III: Digital	5

Year Three

ART 381	Photographic Arts I	5
ART 382	Photographic Arts II	5
ART 383	Photographic Arts III	5

Year Four

ART 481A	Advanced Photographic Arts I	5
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ART 482	Advanced Photographic Arts II	5
ART 495F ¹	Photography Studio Practicum	3
ART 496F ¹	Photography Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
AH 237	Photo History Survey	4
	One Art History Elective (300-400 level)	4

¹ Art 495F and 496F combine to meet Tier III requirements for Photography majors.

Total minimum hours required: 192

*Some of these credits will apply toward the 35 hours of required studio electives.

**Some of these credits are gained prior to Portfolio Review.

Printmaking—Major code BF5128

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the B.F.A. degree program.

General Academics**Years One-Four**

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective or Tier III Equivalent (not needed before portfolio review)	4-5

Studio Foundations**Years One-Two**

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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Studio Requirements

Five 200-level Studio Courses* (at least two printmaking courses required to apply for major)	25
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Portfolio Review for Admission to Major occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Students must have an overall g.p.a. of 2.75 to apply to any major within the School of Art. This application should only occur after consulting with the chair of the intended major area. To maintain major status after acceptance into the major, students must maintain an overall g.p.a. of 2.75 and a g.p.a. of 3.0 within their major area of study. Consult area chair for details on the portfolio requirements in your area of interest.

Printmaking Studio Courses**Year Two**

Select at least 10 hours from

ART 240	Monotype	5
ART 241	Lithography	5
ART 242	Etching	5
ART 247	Relief Printing	5
ART 248	Serigraphy	5

Year Three-Four

Select at least 30 hours from

ART 341	Advanced Prints	5-15
ART 345	Papermaking	5
ART 346	Art on Computers	5
ART 347	Print Topics	5
ART 441	Senior Prints	5-10
ART 442A	Prints	5
ART 495M ¹	Prints Studio Practicum	3
ART 496M ¹	Prints Studio Project	3

Seven Studio Electives**	
(15 credits must be from 300-400 level)	35
Two Art History Electives (300-400 level)	8

¹ Art 495M and 496M combine to meet Tier III requirements for Printmaking majors.

Total minimum hours required: 192

*Some of these credits will apply toward the 35 hours of required studio electives.

**Some of these credits are gained prior to Portfolio Review.

Sculpture—Major code BF5126

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the B.F.A. degree program.

General Academics

Years One-Four

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective or Tier III Equivalent (not needed before portfolio review)	4-5

Studio Foundations

Years One-Two

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

Art History

Select three courses from:

AH 211, 212, 213	History of Art	12
or AH 214	History of Non-Western Art	

Studio Requirements

Five 200-level Studio Courses*	
(at least two sculpture courses required to apply for major)	25

Portfolio Review for Admission to Major occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Students must have an overall g.p.a. of 2.75 to apply to any major within the School of Art. This application should only occur after consulting with the chair of the intended major area. To maintain major status after acceptance into the major, students must maintain an overall g.p.a. of 2.75 and a g.p.a. of 3.0 within their major area of study. Consult area chair for details on the portfolio requirements in your area of interest.

Sculpture Studio Courses

Year Two

ART 231A	Sculpture I	5
ART 231B	Sculpture II	5

Year Three

ART 331A	Sculpture III	5
ART 331B	Sculpture IV	5
ART 331C	Sculpture V	5

Year Four

ART 431A	Sculpture VI	5
ART 431B	Sculpture Workshop (take twice)	5-10
ART 495S ¹	Sculpture Studio Practicum	3
ART 496S ²	Sculpture Studio Project	3

Seven Studio Electives**	
(15 credits must be from 300-400 level)	35
Art History Elective (300-400 level)	8

¹ Art 495S and 496S combine to meet Tier III requirements for Sculpture majors.

Total minimum hours required: 192

*Some of these credits will apply toward the 35 hours of required studio electives.

**Some of these credits are gained prior to Portfolio Review.

Bachelor of Art (B.A.) in Art

Major code BA5193

Students interested in earning a Bachelor of Arts degree should contact the School of Art Office to obtain the current degree requirements.

General requirements for a B.A. are (a) a minimum of 192 quarter hours, including (b) 90 hours of Arts and Sciences coursework above the 199 level; (c) the equivalent of two years of college-level foreign language; (d) at least 18 hours each of humanities, social sciences, and natural sciences coursework; (e) General Education Requirements—Tiers I, II, III and (f) all requirements stipulated by the department for the chosen major. Minors are optional.

A minimum of 192 quarter hours of credit is required for the B.A. degree. Policy does not allow an accumulation of more than 72 hours in any one major for a B.A. Any hours earned in excess of the stated maximum for the major will necessitate earning equivalent credit hours over 192. Please check the Student Information page on the School of Art Web site for current requirements and other useful information.

Art Minor

Minor code ORARTM

The art minor is offered for nonmajors who wish to pursue study in art. To declare an art minor, consult with your major advisor and with a School of Art advisor. Approval from the School of Art Director is required. Minimum requirement of 2.75 overall g.p.a. required for admission. You must maintain a 2.75 g.p.a. in the minor.

Requirements for an art minor are:

Complete three of the following four classes:

ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4

Complete three of the following five:

AH 211, 212, 213	History of Art	
AH 214	History of Non-Western Art	
ART 110	Seeing and Knowing Visual Arts	
	Two 200- or 300-level art studio courses or two 300- or 400-level art history courses	8-10

Minimum hours required: 32

School of Dance

Madeleine Scott, Director

Our four year pre-professional training program leads to a Bachelor of Fine Arts within the liberal arts setting of Ohio University. We prepare the individual for future work in the field of dance and related professions by encouraging the realization of individual artistic potential through the integration of creative, physical, and intellectual processes. Our curriculum emphasizes modern dance choreography and performance and includes theoretical, historical, and practical studies in dance. We provide the general University student with studies in the practice, history, and aesthetics of dance. Through presentation of high-quality performances we contribute to the cultural environment of the University, community, and region.

Performances of student and faculty choreography are given regularly in the Shirley Wimmer Dance Theatre and a

variety of other theatrical spaces. Workshop performances, internships, and College of Fine Arts performance projects offer additional performance opportunities.

A visiting artist program enriches the curriculum during the academic year. Major figures in the field of dance teach, choreograph, hold special workshops, perform, and are engaged for residencies on campus.

Strong individual academic and professional advising characterizes the School of Dance. The development and progress of each dance major are carefully assessed by a faculty advisor. As a dance major or minor, you are expected to maintain at least a 3.0 g.p.a. in dance core work (modern and ballet technique and choreography) and a 2.7 g.p.a. overall in dance courses; if your work is found to be deficient, you may be placed on probation or advised to modify your program of study.

Scholarship auditions for incoming freshmen are held in November and January. Schedule an appointment well in advance by contacting the School of Dance or the Office of Admissions. All transfer students intending to major in dance are required to audition as part of the admission process. An appointment for an audition and information on proficiency requirements can be obtained by contacting the director of the School of Dance.

An honors tutorial program in dance is available for exceptionally talented and motivated students. This individualized program of study requires a distinctive combination of high school grades, test scores, teacher recommendations, and special achievements. Direct inquiries concerning eligibility to the School of Dance. If eligible, you must complete the application, audition, and interview processes by December 15.

Admission Requirements

An audition is required for all students who plan to major or minor in dance. The audition is in the form of a dance class and does not require presentation of previously learned materials. If you wish to be considered for talent scholarships, you must audition by February 1; otherwise, an audition appointment can be made during the school year. Contact the School of Dance, 740.593.1826, for information. Though all prospective students are encouraged to attend auditions on the Ohio University campus, videotapes will be accepted under extenuating circumstances.

The School of Dance is a fully accredited member of the National Association of Schools of Dance.

Major in Dance

Major code BF5151

Freshman: 50-60

DANC 090	Composition Lab	0
DANC 101ABC 102ABC, 103ABC	Modern and Ballet Techniques/Composition	21
DANC 104D	Jazz Dance Technique I (may be substituted only once for Danc 101B, 102B or 103B)	
DANC 111	Music for Dance	2
DANC 170	View. 20th-Cent. Dance	4
DANC 231	Intro Dance Kinesiology	2
DANC 380	Practicum in Dance Prod.	1-3
	Tier I English composition (100 level)	5
	Tier I quantitative skills	4-5
	Tier II	5-9
	Electives	6-9

Sophomore: 48-60

DANC 090	Composition Lab	0
DANC 201ABC, 202ABC, 203ABC	Modern and Ballet Techniques/Composition	21
DANC 204D	Jazz Dance Technique II (may be substituted only once for DANC 201B, 202B or 203B)	
DANC 240	Pract. in Tchng. Dance	1
DANC 312	Music for Dance	3
DANC 331	Analysis of Dance Mvt.	4
DANC 380	Practicum in Dance Prod.	1-3
DANC 440	Pract. in Teaching Dance	2
DANC 441	Teaching Dance	3
	Tier II	10-15
	Electives	6-10

Junior: 49-55

DANC 090	Composition Lab	0
DANC 301ABC, 302ABC, 303ABC	Modern and Ballet Techniques/Composition	21
DANC 304D	Jazz Dance Technique III (may be substituted only once for DANC 301B, 302B or 303B)	
DANC 313 or DANC 315A	Dance Notation Laban Movement Analysis	3
DANC 380	Practicum in Dance Prod.	1-3
DANC 431	Dance Kinesiology Sem.	2
DANC 440	Pract. in Tchng. Dance	2
DANC 443	Teaching Dance	2
DANC 471	History of Dance I	4
	English composition (300 level)	4
	Tier II	4-5
	Electives	6-10

Senior: 43-56

DANC 090	Composition Lab	0
DANC 351* or DANC 472*	Dance Cultures History of Dance II	4
DANC 401AB, 402AB, 403AB	Modern and Ballet Techniques	15
DANC 404D	Jazz Dance Techniques IV (may be substituted only once for DANC 401B, 402B or 403B)	
DANC 460	Senior Seminar	2
DANC 473 or DANC 474	History of Dance III History of Postmodern Choreography and Practice Black Dance Forms	4
or DANC 271		
DANC 480	Production Problems	3-6
	Tier III	4-5
	Electives	12-24

*DANC 351 and DANC 472—offered alternate years.

Electives should include a choice of courses in philosophy, psychology, anthropology, studio art, art history, music performance, music history, theater history, acting.

Total minimum hours required: 192

Minor in Dance

Minor code OR5151

A dance minor is designed for individuals majoring in other fields who wish, in the course of their college experience, to gain an understanding of the art of dance. This program may, however, be applied toward the dance major sequence. To become a dance minor, you must come to the School of Dance for an audition and advising. The first quarter of work is probationary. The minor program includes 30 credits, with a minimum of 4 credits selected from DANC 312, 313, 331, 351, 431, 441, 443, 471, 472, and 473. Program approval is required.

DANC 090	Composition Lab	0
DANC 101 ABC	Technique/Composition	7
DANC 102 ABC	Technique/Composition	7

DANC 103 ABC	Technique/Composition	7
DANC 170	View. 20th-Cent Dance	4
DANC 380	Practicum in Dance Prod.	1
	Dance electives	4-7

DANC 101, 102, and 103 must be taken sequentially within one academic year. Under exceptional circumstances and with faculty approval, other arrangements may be made.

Minor in Dance: History and Theory

Minor code ORDNCH

The dance minor in history and theory focuses on the growing field of dance studies that use a theoretical perspective based in dance and other movement practices as a means of analyzing dance within larger cultural contexts. This dance minor integrates theory and practice as a means of heightening a scholarly inquiry. This concentrated study helps prepare for employment or graduate study with a specialized dance emphasis in arts administration, dance ethnology, and dance in film or video.

To become a dance minor in history and theory you must have a sophomore standing, a 3.0 g.p.a. in your major discipline or field, and come to the School of Dance to meet with an advisor. No audition is required.

The minor in dance theory and history requires 30 credits.

Dance Technique	Modern, Ballet, Jazz or African at the 200 level or above	6
DANC 170	Viewing 20th Century Dance	4
DANC 171	Dance Experience	4
DANC 271 or DANC 351	Black Dance Forms Dance Cultures of the World	4
And select three courses from the following:		
DANC 471	Dance History I	4
DANC 472	Dance History II	4
DANC 473	Dance History III	4
DANC 474	Dance History IV	4
Total Credit Hours:	30	

Minor in Dance: Somatic Studies

Minor code ORDNCN

The dance minor in somatic studies considers the bodily kinesthetic knowledge that dancers develop in the course of their study of movement. Students perform physical activities and analyze movement practices from a variety of somatic theory perspectives and learn through both theory and practice. Study in this minor augments degree work in psychology, pre-physical therapy, exercise physiology, recreational therapy, and physical education. Concentrated study in the somatic studies minor helps prepare for employment or graduate study in dance therapy, clinical psychology, physical therapy, dance kinesiology, and recreational therapy. To become a dance minor in somatic studies you must have sophomore standing, a 3.0 g.p.a. in your major discipline or field of study, and come to the School of Dance to meet with an advisor. No audition is required.

The minor in dance somatic studies requires 30 credits.

Dance Technique	Modern, Ballet, Jazz or African at the 200 level or above	6
DANC 170	Viewing 20th Century Dance	4
DANC 171	Dance Experience	4
DANC 231	Intro to Dance Kinesiology	2
DANC 315A	Laban Movement Analysis	3
DANC 330A	Pilates Reformer Training	1
DANC 330B	Bartenieff Fundamentals	2
DANC 330C	Pilates Mat Training	1
DANC 331	Analysis of Dance Movement	4

DANC 431	Dance Kinesiology Seminar	2
DANC 332	Fitness for the Whole Mover	2 (optional)
DANC 490	Independent Study	1
or DANC 495	Special Topic in Dance	1
Total Credit Hours	30	

School of Film

Jody Lamb, Director

The School of Film, in conjunction with the Honors Tutorial College, offers exceptional students the opportunity for practical and scholarly study of film combined with a broad liberal arts education. The program culminates with an honors thesis and leads to the Bachelor of Fine Arts degree in film. Enrollment is limited; only ten students (2-3 per year) can be enrolled in this program at any given time.

Admission Requirements

An applicant is expected to rank in the top ten percent of her/his high school class and to have a minimum ACT Composite score of 30 or a combined SAT score of 1300. Additional admission requirements include: (1) a current resume, (2) three letters of recommendation, (3) a writing sample, (4) a 500-word personal essay describing your passion for studying film, and—for all applicants interested in the production concentration—(5) a portfolio of creative work demonstrating significant accomplishments in any area of the fine arts.

The Tutorial Program

There are five elements to the tutorial program in Film:

1. Twelve individual tutorials on topics in film

studies and film production are required. Possible topics in production include all aspects of film and video pre-production, production, and post-production; screenwriting; producing; directing; and special topics in film/video production. Possible tutorial topics in film studies include film theory, criticism, history (including history of experimental, documentary, and narrative film and video), historiography, film and society, research methods, and international cinemas. The honors thesis is also taken as a tutorial.

2. Liberal Arts education. The nature of the film medium requires a broad background in liberal arts and a multidisciplinary approach to learning. Students are expected to select 15 to 18 elective courses in film, history, English, telecommunications, comparative arts, foreign languages, and other disciplines.

3. Production and scholarship courses in film. Breadth of understanding can often best be achieved through practical courses in film and video production and courses in film scholarship. Because film is a collaborative art, you will join other students in the appropriate courses. By the second year, each tutorial student will select her/his area of specialization within one of two overall areas: (1) film studies or (2) film/video production. In the junior year, each student choosing a film/video production option is to complete a junior year creative project.

4. Minor area of specialization. The student will plan a cognate minor consisting of four courses or sixteen credit hours outside the School of Film. These courses will be chosen according to an individual plan that you develop with the Director of Studies. Students wishing, for example, to enter a career in producing or arts administration should complete a cognate minor such as management, accounting, or business.

5. The Honors Thesis in Film. Each student is required to complete an Honors Thesis. This may take the form of a completed film, video, feature-length screenplay, or a major research thesis.

In addition, students are encouraged to seek internship opportunities in film and related fields.

The School of Film Committee (Director of Studies, Director of the School and two tutors) oversees the program. The Director of Studies assigns tutors in accordance with the student's interests and, in consultation with the student, develops an individual plan of study leading to the Bachelor of Fine Arts degree in Film.

Evaluation

Papers and creative work developed as part of each tutorial are discussed and evaluated by the tutor. The Director of Studies also consults with tutors about your progress, and the strengths and weaknesses of individual students so that subsequent tutorials can address problems and build on existing strengths. A description of each tutorial as well as an informal evaluation is filed by the tutor in the college office and School of Film office at the close of the quarter.

Honors Thesis

Tutorial Students prepare and defend an original thesis during the fourth year. This may be either a written thesis or a studio thesis resulting in a film, video, or screenplay. The topic and scope of the thesis is approved by the tutorial committee no later than the end of Fall Quarter in the third year of the student's program. The thesis should reflect the student's interest in her/his chosen area of concentration.

Application

The deadline to apply for admission is December 15. Please submit all artwork on labeled slides, videotape, and DVD's; the School cannot accept original artwork.

Sample Programs

Film Production Option

Year 1	
Introduction to Film I, II, III	12
Tutorials (3)	12
Electives	20
Minor Cognate	4
Subtotal	48 hours
Year 2	
Avid Editing I, II	8
Filmmaking I, II, III	12
Tutorials (3)	12
Sound I	4
Electives	12
Subtotal	48 hours
Year 3	
Adv. Cinematography	4
Adv. Editing	4
Sound II	4
Tutorials (3)	12
Electives	16
Minor Cognate	8
Subtotal	48 hours
Year 4	
Tutorials (including Honors Thesis)	30
Electives	18
Subtotal	48 hours
Program Total—192 hours	

Film Scholarship Option

Year 1	
Film History I, II, III	12
Tutorials (3)	12
Electives	20
Minor Cognate	4
Subtotal	48 hours
Year 2	
International Cinemas I, II	12
Theory and Criticism I, II	8
Tutorials (3)	12
Electives	12
Subtotal	48 hours
Year 3	
Seminar I, II, III	12
Tutorials (3)	12
Electives	16
Minor Cognate	8
Subtotal	48 hours
Year 4	
Tutorials (including Honors Thesis)	30
Electives	18
Subtotal	48 hours
Program Total—192 hours	

Minor in Film

Minor code ORFILM

The School of Film offers a 30 credit-hour minor for those students majoring in other fields but wish to expand their knowledge of film.

Students wishing to declare a minor in film must (1) receive permission from the head of undergraduate studies in film and (2) receive permission from the Dean's office in the College of Fine Arts to pursue the program.

Any student wishing to declare a minor in film must have a minimum g.p.a. of 2.5.

Core Courses (required):

FILM 201	Introduction to Film I	4
FILM 202	Introduction to Film II	4
FILM 203	Introduction to Film III	4
FILM 340	Film Techniques	4
FILM 343	Scriptwriting	4

Film Electives (at least 10 credit hours from the following):

FILM 421	International Film I	4
FILM 422	International Film II	4
FILM 423	International Film III	4
FILM 431	Film History I	4
FILM 432	Film History II	4
FILM 433	Film History III	4
FILM 451	Theory I	4
FILM 471	Film Topics Seminar	1-5
FILM 472	Film Topics Seminar	1-5
FILM 473	Film Topics Seminar	1-5

Minimum hours required: 30

School of Interdisciplinary Arts

William F. Condee, Director

The School of Interdisciplinary Arts offers only the Ph.D. degree. Undergraduate course offerings may be used to complete Tier II, Tier III, or elective requirements or to obtain a minor in interdisciplinary arts.

Minor in Interdisciplinary Arts

Minor code ORIART

Core Courses:

IART 117	Intro to the Arts	4
IART 118	Intro to the Arts	4
IART 150	Viewing Performance	2

At least five courses from the following. The courses must include at least two art forms:

IART/AH 211	History of Art	4
IART/AH 212	History of Art	4
IART/AH 213	History of Art	4
AH 214	History of Non-Western Art	4
AH 350	Prin. of Architecture	4
AH 351	Ancient Architecture	4
AH 352	Medieval Architecture	4
AH 353	Renaissance and Baroque Architecture	4
AH 354	19th- and 20th-Century Architecture	4
DANC 170	Viewing 20th Century Dance	4
DANC 351	Dance Cultures of World I	4
DANC 471	History of Dance I	4
DANC 473	History of Dance III	4
FILM 201	Introduction to Film I	4
FILM 202	Introduction to Film II	4
FILM 203	Introduction to Film III	4
IART/MUS 321	Music History	3
IART/MUS 322	Music History	3
IART/MUS 323	Music History	3
IART/THAR 270	Theater History I	4
IART/THAR 271	Theater History I	4
IART/THAR 272	Theater History I	4
IART/THAR 470	Tragedy	4
IART/THAR 471	Comedy	4
IART/THAR 472	Forms of Drama	4
THAR 473	Seminar in Theater History: Selected Topics	4

Minimum Credit hours required: 30

School of Music

The curricula of the School of Music, culminating in the Bachelor of Music degree, prepare you for a career in teaching, music therapy, composition, academic research, or performance. The School of Music provides individual applied study in vocal and instrumental music and offers a wide range of courses in the fields of theory, composition, electronic music, music history and literature, music education, and music therapy. There are opportunities for individual participation in student recitals and for performing experience in various ensembles such as the Choral Union, University Singers, The Singing Men of Ohio, Women's Chorale, Opera Theater, Symphony Orchestra, Wind Ensemble, Symphonic Band, Marching Band, jazz ensembles, and many small chamber ensembles. Performing groups are open to all students enrolled in the University, and selection is determined by audition.

The school is a member of the National Association of Schools of Music. Entrance and graduation requirements are in accordance with the standards set by the association.

The Athens Community Music School, a unit within the School of Music, provides instruction for precollege-age students, University students who are not music majors, and other adults. Private instruction is offered in all instruments and voice. Teachers include faculty members, graduate students, and advanced undergraduates. Details are available from the director of the Athens Community Music School.

The School of Music offers an approved minor in music for nonmajors who wish to pursue the study of music.

Requirements for all music majors include the following: proficiency on a major instrument and secondary piano, ensemble participation, music theory (must receive a "C" or better to proceed to next level of Music Theory), music history, and MUS 090 Concert/Recital Attendance. Specific requirements are outlined in the School of Music Handbook.

The following course plans outline a practical sequence of required courses to help you plan your course of study. You must complete Tiers I, II, and III of the University General Education Requirement. (See "Graduation Requirements.")

Admission Requirements

If you are a freshman or transfer student who intends to major in music, you are required to audition with your major instrument or voice and to take a theory placement test. An interview is also required for prospective music education and music therapy majors. The audition, interview, and theory placement test are scheduled on the same day. You may obtain specific dates and information from the School of Music office or at <http://www.finearts.ohio.edu/music/>.

Bachelor of Music in Performance

The following curricula are designed for students demonstrating exceptional talent, technical competence, and the ability to interpret advanced repertoire on their instrument or voice. You are prepared to perform repertoire from all periods available for your instrument. You are required to participate in solo, chamber music, and large ensemble performances. The Bachelor of Music prepares graduating students to establish private teaching studios, to engage in professional performance, and to study at the graduate level. An emphasis in pedagogy is available for piano majors primarily interested in teaching.

Piano

Major code BM5100

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro Music Hist. and Lit.	4
MUS 341	Piano	12
	Performance group	3-6
	Tier I English comp., quant. skills	9-10
COMS 101	Fund. of Human Comm.	4
	Tier II Electives	8-9

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 341	Piano	12
	Performance group	3
	Electives	9

Junior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 421C*	Chamber Music Lit.	3
MUS 450	Accompanying	3
MUS 455	Conducting	3
MUS 495 ¹ or 497	Jr. Recital	1
	Music theory/lit electives	4-6
	Performance Group	3-6
	Electives	13
	English comp. (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 457G	Keyboard Repertoire I	2
MUS 457K	Keyboard Repertoire II	2
MUS 457L	Keyboard Repertoire III	2
MUS 458G, H, I	Piano Pedagogy	6
MUS 496 ¹ or 497	Senior Recital	2-3
	Performance group	3-6
	Tier II electives	12-15
	Tier III	4-5
	Elective	3-5

*May be taken in either the junior or senior year. Keyboard skills proficiency exam is required.

¹ Tier III Equivalent after completing MUS 495 and 496. No Tier III credit given for MUS 497.

Minimum credit hours required for graduation: 194

Piano with an Emphasis in Pedagogy**Major code BM5104****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 341	Piano	12
	Performance group	3-6
	Tier I English comp., quant. skills	9-10
COMS 101	Fund. of Human Comm.	4
	Tier II Electives	8-9

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 341	Piano	12
MUS 370	Practicum	6
	Performance group	3

Junior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 372	Adv. Functional Skills	2
MUS 458G, H, I	Piano Pedagogy	6
	Music theory/lit electives	4-6
MUS 495 ¹ or 497	Jr. Recital	1
	Performance group	3
PSY 101	General Psychology	5
PSY 275	Educational Psych.	4
	English composition (300 level)	4
	Tier II elective	4-5
	Elective	3

Senior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 370	Practicum	6
MUS 457G	Keyboard Repertoire I	2
MUS 457K	Keyboard Repertoire II	2
MUS 457L	Keyboard Repertoire III	2
MUS 450	Accompanying	3
MUS 455	Conducting	3
MUS 458E	Class Piano Pedagogy	2
MUS 496 ¹ or 497	Sr. Recital	2-3
	Performance group	3-6
	Tier II elective	4-5
	Tier III or Tier III equivalent	4-5
	Electives	6

Keyboard skills proficiency exam is required.

¹ Tier III Equivalent after completing MUS 495 and 496. No Tier III credit given for MUS 497.

Minimum credit hours required for graduation: 195

Voice**Major code BM5101****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 340	Voice	12
MUS 341	Piano	6
or 141, 142, 143	Class Piano	
MUS 375A, B	Eng., Italian Diction	2
	Performance group	3-6
ITAL 111, 112	Italian	8
	Tier I English comp., quant. skills	9-10
	Tier II elective	4-5

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 340	Voice	12
MUS 341	Piano	6
or 241, 242, 243	Class Piano	
MUS 375C	German Diction	1
MUS 457D	Solo Repertoire	1
	Performance group	3-6
GER 111, 112	German	8
	Tier II elective	4-5

Junior

MUS 090	Performance Lab	0
MUS 321, 322, 323	Music History	9
MUS 340	Voice	12
MUS 341	Piano	6
or 359, 360, 361	Class Piano	
MUS 375D	French Diction	1
MUS 457D	Solo Repertoire	1
MUS 495 ¹ or 497	Jr. Recital	1
MUS 497	Recital	1
	Music theory/lit elective	2-3
	Performance group	6
FR 111, 112	French	8
	English composition (300 level)	4
	Tier II electives	8-10

Senior

MUS 090	Performance Lab	0
MUS 340	Voice	12
MUS 421F	Literature of Opera	3
MUS 455, 456B	Conducting	6
MUS 457D	Solo Repertoire	1
MUS 458D	Vocal Pedagogy	2
MUS 496 ¹ or 497	Sr. Recital	2-3
	Music theory/lit elective	2-3
	Performance group	3-6
	Electives	6
	Tier II elective	4
	Tier III	4-5

Demonstration of piano proficiency is required.

¹ Tier III Equivalent after completing MUS 495 and 496. No Tier III credit given for MUS 497.

Minimum credit hours required for graduation: 216

Organ**Major code BM5102****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 343	Organ	12
	Performance group	3-6

	Tier I English comp., quant. skills	9-10
COMS 101	Fund. of Human Comm.	4
	Tier II electives	8

Sophomore

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 343	Organ	12
	Performance group	3-6
	Electives	3-4

Junior

MUS 090	Performance Lab	0
MUS 343	Organ	12
MUS 407A, B, C or MUS 455, 456 and	Counterpoint Conducting Elective	9
MUS 495 ¹ or 497	Jr. Recital	1
	Performance group	3
	Music elective	6
	Elective, French or German	12
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 343	Organ	12
MUS 407A, B, C or MUS 455, 456 and	Counterpoint Conducting Elective	9
MUS 421E	Literature of Organ Music	3
MUS 496 ¹ or 497	Sr. Recital	2-3
	Performance group	3-6
	Tier II electives	9-10
	Tier III	4-5
	Electives	6

Minimum credit hours required for graduation: 193

¹ Tier III Equivalent after completing MUS 495 and 496. No Tier III credit given for MUS 497.

Orchestral Instruments**Strings, Woodwinds, Brass, or Percussion****Major code BM5103****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
	Major instrument	12
MUS 341 or MUS 141, 142, 143	Piano Class Piano	6
	Band/orchestra	3-6
MUS 254*	Chamber Music	3
	Tier I English comp., quant. skills	9-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 254	Chamber Music	3
MUS 321, 322, 323	Music History	9
MUS 341 or MUS 241, 242, 243	Piano Class Piano	6
	Major instrument	12
	Band/orchestra	3-6

Junior

MUS 090	Performance Lab	0
	Major instrument	12
	Music theory and literature electives	9
MUS 455, 456A	Conducting	6
	Band/orchestra	3-6
MUS 254	Chamber Music	3

MUS 495 ¹ or 497	Jr. Recital	1
	English composition (300 Level)	4
	Tier II electives	12

Senior

MUS 090	Performance Lab	0
	Major instrument	12
MUS 457, 458	Solo Repertoire, Pedagogy	3
	Band/orchestra	3-6
MUS 254	Chamber Music	3
MUS 304	Instrumentation	3
MUS 496 ¹ or 497	Sr. Recital	2-3
	Tier II electives	12-14
	Tier III	4-5
	Elective	2

*12 quarters chamber music required for string majors; 9 quarters for other instrumentalists.

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 194

¹ Tier III Equivalent after completing MUS 495 and 496. No Tier III credit given for MUS 497.

Bachelor of Music in Music Theory or Composition

The curriculum is designed to prepare exceptionally talented students for careers as theorists or composers or for continued study or graduate work in theory or composition. The curriculum focuses on basic musicianship skills; analytical, aural, and writing skills; compositional facility and technique; and the acquisition of a historical perspective on, and basic knowledge of, technological innovations in the field.

Theory**Major code BM5116****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 178	Computer Skills for Musicians	2
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano ¹	6
	Performance group	3-6
	Tier I English comp., quant. skills	9-10
COMS 101 or COMS 103	Fund. of Human Comm. Public Speaking	4
	Electives	8-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano ¹	6
	Performance group	3
	Tier II electives	12-15
MUS 413	Intro to Electronic Music	3

Junior

MUS 090	Performance Lab	0
MUS 309	Composition	6
MUS 407A, B, C	Counterpoint	9
MUS 415	Microcomputer Appl.	3
	Major instrument	6
	Performance group	3-6
	English composition (300 level)	4
	Tier II electives	8-10
	Elective	6-8

Senior

MUS 090	Performance Lab	0
MUS 304, 305, 306	Instrumentation, Orchestration I	6
MUS 402A, B, C	Styles	9
MUS 418A*	Sr. Thesis I	2
MUS 418B*	Sr. Thesis II	2
MUS 421	Music Lit. Electives	9
MUS 455	Conducting	3
	Performance group	3-6
	Tier III elective	4-5
	Electives	6-8
MUS 498	Independent Project	2

¹If piano is the major instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

^aby taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

^bby taking 3 quarters (2 hours per quarter) of either 261 String Methods and Materials or 263 Wind and Percussion Methods and Materials, or a combination of both.

^c If a student in the class piano sequence does not pass the Keyboard Skills Proficiency (KSP) exam at the close of the sophomore year, then the student must take up to 3 additional quarters of class piano (MUS 359, 360, and 361) until the KSP is completed.

^dDemonstration of Keyboard Skills Proficiency (KSP) is required. (See School of Music Handbook).

*Tier III Equivalent after completing both courses.

Minimum credit hours required for graduation: 199

Composition**Major code BM5105****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Mus. Hist. & Lit.	4
MUS 178	Computer Skills for Musicians	2
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano ¹	6
	Performance group	3-6
	Tier I English comp., quant. skills	9-10
COMS 101 or COMS 103	Fund. of Human Comm. Public Speaking	4
	Tier II electives	8-10

Sophomore

MUS 090	Performance Lab	0
	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 413	Intro to Electronic Music	3
MUS 415	Microcomputer Applications	3
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano ¹	6
	Performance group	3-6
	Tier II electives	8-10

Junior

MUS 090	Performance Lab	0
MUS 310, 311, 312	Composition	6
MUS 407A, B, C	Counterpoint	9
	Major instrument	6
	Performance group	3
	English composition (300 level)	4
	Tier II electives	8-10
	Elective	4-5

Senior

MUS 090	Performance Lab	0
MS 304, 305	Instr. Orch. I	6
MUS 402A, B, C	Styles	9
MUS 309	Composition	6

MUS 418A*	Sr. Thesis I	2
MUS 418B*	Sr. Thesis II	2
MUS 421	Music Lit. Electives	9
MUS 455	Conducting	3
	Performance group	3-6
	Tier III	4-5
	Electives	3

¹If piano is your major instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

^aby taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

^bby taking 3 quarters (2 hours per quarter) of either 261, String Methods and Materials, or 263. Wind and Percussion Methods and Materials, or a combination of both.

^c If a student in the class piano sequence does not pass the Keyboard Skills Proficiency (KSP) exam at the close of the sophomore year, then the student must take up to 3 additional quarters of class piano (MUS 359, 360, and 361) until the KSP is completed.

^dDemonstration of Keyboard Skills Proficiency (KSP) is required. (See School of Music Handbook).

*Tier III Equivalent given after completing both courses.

Minimum credit hours required for graduation: 192

Bachelor of Music in Music History and Literature

Major code BM5114

The curriculum is designed to provide a broad foundation in music history, theory, performance, and research in music for students interested in these and related areas at the graduate level. While diversified in its academic and performance components, the curriculum sufficiently emphasizes each, giving you a variety of choices in selecting specialization at higher degree levels.

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano ¹	6
	Performance group	3-6
	Tier I English comp., quant. skills	9-10
	English electives	10
COMS 101	Fund. of Human Comm.	4

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano ¹	6
	Performance group	3
	Tier II electives	12-15

Junior

MUS 090	Performance Lab	0
MUS 421	Music Lit. Electives	9
	Theory electives	6-9
	Modern languages	12
	Major instrument	6
	Performance group	3
	English composition (300 level)	4
	History electives	8

Senior

MUS 090	Performance Lab	0
MUS 418A ²	Sr. Thesis I	2
MUS 418B ²	Sr. Thesis II	2

MUS 421	Music Lit. Electives	9
MUS 428	Jazz History	3
MUS 455	Conducting	3
MUS 498	Independent Projects	2
	Modern languages	12
	Performance group	3
	Tier II electives	8-10
	Tier III	4-5

¹If piano is the major instrument, the secondary instrumental requirement may be satisfied by taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

^aIf a student in the class piano sequence does not pass the Keyboard Skills Proficiency (KSP) exam at the close of the sophomore year, then the student must take up to 3 additional quarters of class piano (MUS 359, 360, and 361) until the KSP is completed.

^bDemonstration of Keyboard Skills Proficiency (KSP) is required. (See School of Music Handbook).

*Independent Project determined in consultation with music history chair

² Tier III Equivalent given after completing both courses.

Minimum credit hours required for graduation: 200

Bachelor of Music in Music Education

To specialize in music education, you must choose one of two areas of concentration: instrumental music education or choral/general music education. Upon completion of the program and State Board of Education requirements, the music education candidate will receive an Ohio Multi-Age License for teaching music in the public schools.

Choral Emphasis

Major code BM5106

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 163	Intro to Music Education	2
	Major instrument ¹	6
MUS 178	Computer Skills for Musicians	2
	Minor instrument (see music handbook)	6
	Performance group	3-6
COMS 103	Fund. of Public Spkg.	4
	Tier I English comp., quant. skills	9-10
PSY 101	General Psychology	5

Sophomore

MUS 090	Performance Lab	0
MUS 179	Technology for Music Ed.	2
MUS 182	Rec. Mus. Instr. and Mat.	3
	Major instrument ¹	6
	Minor instrument (see music handbook)	6
	Performance group	3-6
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
EDTE 200	Learning Human Growth and Dev.	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Education	2
	Tier II electives	8-10

Junior

MUS 090	Performance Lab	0
MUS 263A	Perc. Meth. Classes	2
MUS 321, 322, 323	Music History	9
	Music History Elective	3
MUS 363	Secondary Sch. Instr. Methods and Mat.	3
MUS 364	Sec. Choral Techniques	3
MUS 366	Teach. Mus. Elem.	3
MUS 455, 456B	Conducting	6
MUS 468	Gen. Music in JHS	3
	Major instrument ¹	6

	Minor instrument (see music handbook)	6
	Performance group	3-6
EDSE 350	Secondary School Planning and Inst.	4
EDSE 351	Secondary Sch. I Teaching and Learning	4
EDTE 371B	Inst. Adapt. for Learners with Excep. and Diverse Needs (see Art Ed. section)	3
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 261A or MUS 261B	Uppr Strings Methods & Mat	2
MUS 263E	Lower Strings Methods & Mat	2
MUS 263I	Trumpet Methods & Mat	2
	Clarinet Methods & Materials	2
	Music Theory Elective	3
MUS 366B	Early Child. Mus. Ed.	3
	Performance group	2-4
MUS 458D	Vocal Pedagogy	2
EDCS 301	Educ. and Cult. Diversity	3
EDCS 400 ²	School, Society, and the Professional Educator	4
EDPL 461, 463, 465	Student Teaching	16
	Tier III	4
	Elective	5

¹Major instrument may be voice, piano, or organ. Students who have voice as the major instrument must elect piano as their secondary instrument. Students who have piano or organ as the major instrument must elect voice as their second instrument.

²Tier III equivalent

Minimum credit hours required for graduation: 208

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

Instrumental Emphasis

Major code BM5107

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 163	Intro to Music Education	2
MUS 178	Computer Skills for Musicians	2
COMS 103	Fund. of Public Spkg.	4
PSY 101	General Psychology	5
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano	6
	Performance group	3-6
	Tier I English comp., quant. skills	9-10

Sophomore

MUS 090	Performance Lab	0
MUS 179	Technology for Music Ed.	2
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 261 or 263	Instr. Meth. Classes (2 credits each)	4
EDTE 200	Learning, Human Growth, and Dev.	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Education	2
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano	6
	Performance group	3-6
	Tier II electives	4-5

Junior

MUS 090	Performance Lab	0
MUS 261 or 263	Instr. Meth. Classes (2 credits each)	4
MUS 304	Instrumentation	3
MUS 321, 322, 323	Music History	9
MUS 362, 362L	Teach. Inst. Mus. Elem/MS	4
MUS 363	Second, School Instr. Meth. and Mat.	3

MUS 45S, 456A	Conducting	6
MUS 464	Marching Band Tech.	2
EDCS 301	Educ. and Cult. Diversity	3
EDTE 371B	Inst. Adapt. for Learners w/ Excep. and Diverse Needs (see Art Ed. section)	3
EDSE 350	Secondary Sch. Planning and Instruction	4
EDSE 351	Secondary Sch. Teaching and Learning	4
	Major instrument	6
	Music education elective	2
	Performance group	3-6
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 261 or 263	Instr. Meth. Classes (2 credits each)	8
MUS 366, 366A, 366B, 468	Electives	5
MUS 465	Jazz Ensemble Methods	2
EDCS 400 ¹	School, Society, and the Professional Educator	4
EDPL 461, 463, 465	Student Teaching	16
	Performance group	2-4
	Tier III	4-5

Minimum credit hours required for graduation: 207

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

¹Tier III equivalent.

Bachelor of Music in Music Therapy**Major code BM5115**

The curriculum attracts students desiring to pursue a career in music therapy, combining musical talent, interest in the behavioral sciences in service to individuals with special needs and health issues. The curriculum emphasizes musicianship, clinical application, measurement, and practice-related research. The program offers 10 quarters of supervised practicum (service-learning) opportunities in hospitals, psychiatric facilities for adults and children, extended care facilities, public schools, treatment centers, correctional facilities, and developmental centers. The University-affiliated Athens Community Music School provides students the opportunity to work with individuals and their families. Internship selection is assisted by faculty with students accepted by excellent clinical training programs throughout the country. Coursework prepares the student for positions in medical, education, and community health-related settings as well as private practice.

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation/SS I, II, III	3
MUS 125	Intro to Music Hist and Lit	4
MUS 141, 142, 143	Class Piano ¹	6
MUS 178	Computer Skills for Musicians	2
MUS 180	Music Therapy Practicum I	1
MUS 181	Intro to Music Therapy	3
MUS 182	Rec. Instr. and Music.	3
	Major instrument	6
	Performance group	3
	Tier I English composition	5
PSY 101	General Psychology T-1	5

Sophomore

MUS 090	Performance Lab	0
MUS 147, 148	Voice Class	4
MUS 165	Class Guitar ²	2
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 205	Dictation/SS IV, V, VI	6
MUS 26**	INST Methods	2
MUS 241, 242, 243	Class Piano ¹	6
MUS 280	Music Therapy Practicum II ³	3
MUS 281	Obs., Eval., Research in Music Therapy	3
	Major instrument	6
	Performance Group	3-6
	Statistics	5
PSY 120	Child and Adol. Psy.	5
HCCF 160 or PSY 273	Intro to Child Develop.	

Junior

MUS 090	Performance Lab	0
MUS 263A	Percussion	2
MUS 322, 323	Music History	6
MUS 359, 360, 3611	Class Piano (or other Keyboard elective)	6
MUS 366	Teach. Elem. Mus.	3
MUS 380	Practicum III ³	3
MUS 381, 382	Psychology of Music I, II	6
MUS 45S	Conducting	3
MUS 481	Music Therapy Principles and Tech	3
MUS **	(Acad./Prof Stud Elec.)	3
	Performance Group	3-6
	INST Methods	2
MUS 26**	INST Methods	2
HSL 108 T-II	Intro to Comm. Disorders	5
EDSP 271	Intro Ed. of Except Children and Youth ⁴	4
	Eng. Comp-Tech Writing (300*** level)	4
PSY 332	Abnormal Psychology	4

Senior

DANCE	Elective	2
MUS 377A	Jazz Improvisation	2
MUS 480	Practicum IV ³	3
MUS 482	Music Therapy Principles and Tech.	3
MUS 483	Music Therapy Principles and Tech	3
MUS 489	Clinical Train. in Mus. Therapy (Internship)	1
BIOS 103 T-II	Human Biology I	5
BIOS 203 T-II	Human Biology II	4
	Behavioral Sci. electives (two courses) ⁴	10
	Tier III or Tier III Equivalent	4
	Electives	8

The music therapy curriculum meets the requirements of the School of Music, the accreditation requirements of the National Association of Schools of Music (NASM), and the American Music Therapy Association (AMTA). In addition to the regular coursework, the student must complete MUS 489 Clinical Experience (six-month internship) at a clinical facility approved for the training of the music therapy major before graduation. Upon graduation, the student is eligible to take the board certification examination to receive national credentials as a Board Certified Music Therapist (MT-BC) with the Certification Board for Music Therapy.

Proficiencies are required in keyboard, voice, and guitar. Students are referred to the School of Music, Undergraduate Handbook, for additional requirements, listing of policies, explanations, and expectations for the College of Fine Arts, the School of Music, and the Music Therapy Department.

¹Secondary instrument is piano (class) for all students whose major is not piano. Piano principals do not have a required second instrument. Piano principals select three courses from MUS 341, 343, 372, 450, 458. (372 required).

²Guitar proficiency test available for course waiver.

³1-2 hours depending on practicum hours.

⁴Consult University-Wide Graduation Requirements section for EDSP/behavioral science electives that meet Tier II requirements.

Bachelor of Arts (B.A.) in Music

Major code BA5195

The Bachelor of Arts (B.A.) in Music degree is designed for talented musicians who wish to study a general music curriculum while pursuing the broader and more flexible liberal arts education. An audition is required for admission to the program which may be arranged by contacting the School of Music.

Minor in Music

Minor code ORMUSI

The music minor is offered for nonmajors who wish to study music. To pursue a minor in music, you must receive permission from the associate director of the School of Music.

Theoretical Studies

MUS 100, 101A, 102A	Music Theory*	9
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History and Literature

MUS 120	Intro to Music Literature	3
or MUS 125	Intro to Mus. Hist. and Lit.	4

Two courses selected from the following:

MUS 124	Language of Rock Music	3
MUS 322	Music History	3
MUS 323	Music History	3
MUS 427	Folk Music	3
MUS 428	Jazz History	3

Ensemble

Ensemble (3 quarters)	3
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Electives

Courses in music totaling a minimum of 9 credit hours (applied music is strongly encouraged subject to studio availability)

Minimum hours required: 30

*MUS 101, 102, and 103 may be substituted providing you achieve a satisfactory score on the Freshman Music Theory Entrance Examination and have the approval of the head of the Music Theory Division.

School of Theater

Robert St. Lawrence, *Director*

The School of Theater has had a longstanding track record of success with its graduates. Alumni from our undergraduate programs have gone on to very successful careers in the professional theater, television, and film. The degree programs also give you the competitive edge to enter the best graduate schools in theater. The undergraduate theater programs are accredited by the National Association of Schools of Theater and designed for completion over a period of four years.

The undergraduate theater major at Ohio University experiences a blend of intensive training in an area of concentration with core courses in theater studies. These are coordinated with general education liberal arts courses leading to a professionally oriented Bachelor of Fine Arts degree through the College of Fine Arts.

The School of Theater advises theater majors to complete the University's general education requirements in a manner that broadens the individual student's perspective and worldview. Within the discipline of theater, all undergraduate students enroll in core courses that examine the literature and history of theater and the role of theater in society. They will explore all the facets that compose a theatrical production.

Production activities are considered crucial to the total curriculum planning of a theater major. Majors register each quarter for a credit-bearing practicum in production.

In the first year of training, this involves participation in productions through technical and management assignments. Sophomores, juniors, and seniors have the opportunity to participate as a performer, technician, designer, or stage manager. Some practicum assignments are available for the summer at Monomoy Theater in Cape Cod, which is our summer stock theater.

Your progress is evaluated quarterly by your advisor and faculty in your training area. All theater majors are required to attain a minimum grade of C in any theater course required for graduation. Unsatisfactory progress may result in academic probation, recommendation for transfer to another sequence or degree within the school, modification of the program, or denial of further enrollment as a degree candidate in the School of Theater.

A minor or second major is possible in some cases if you have used careful advising procedures and made intelligent use of the elective options and General Education requirements. Highly motivated and talented students can pursue their degree work in the School of Theater through the Honors Tutorial College, if the tutorial mode of instruction is appropriate for the particular student.

Admission Requirements

Once you have been admitted to Ohio University, you may enter the School of Theater as a general theater major. For scholarship consideration, auditions and interviews are conducted during the winter quarter of each year for students considering entrance the following fall. You are assigned an entry faculty advisor and may be reassigned to a new advisor once you are accepted into a degree concentration program.

Procedure for Admission B.F.A. Programs

At the end of the freshman year, you are expected to declare a degree program. Under normal circumstances, you must complete all the 100-level theater core requirements to be considered for entry into a degree program. Students audition, interview, or present portfolios for entry into the Bachelor of Fine Arts programs (performance, management, playwriting, or production design and technology). You may also enroll in a course of study leading to the Bachelor of Arts degree.

Provisional acceptance into B.F.A. programs: End of freshman year.

After acceptance into one of these programs, retention is based on periodic review of the student's progress, with a major review at the end of the sophomore year.

Theater Core Courses (Required of all B.F.A. majors)

THAR 090	Lunchbag Theater Seminar Series	0
THAR 101	Intro to Profession	1
THAR 111	Acting Improvisation	2
THAR 110*	Intro to Performance	2
THAR 112*, or THAR 213	Intro to Perf. Warm-up Acting Fundamentals II	2
THAR 130	Design Principles for the Stage	3
THAR 131	Elements of Stagecraft	3
THAR 151	Fundamentals of Playwriting	3
THAR 171	Play Analysis	3
THAR 172	Elements of Performance	3
THAR 270, 271, 272	Theater History I, II, III	12
THAR 420	Directing	4
	Two seminars from THAR 470 series	8
	Two English courses at the 200 level or above	8

*For students interested in auditioning for the performance program. Students may fulfill the acting component of the theater core by completing 110, 111, and 112 or completing 111 and 213.

Practicum

Freshman	Two 100-level practica Two courses, 3 credit hours each (winter, spring)	6
Sophomore	Three 200-level practica Three courses, 2 credit hours each (fall, winter, spring)	6
Junior	Two 300-level practica Two courses, 3 credit hours each (any quarters)	6
Senior	Three 400-level practica Three courses, 2 credit hours each (fall, winter, spring) in area of emphasis	6

Minimum total practicum credits: 24

All majors are required to enroll for Lunchbag Theater Seminar (THAR 090) each quarter of residence.

Liberal Arts Requirements for Theater Majors

In addition to the Tier I, II, and III requirements, all majors in the School of Theater are required to take two English courses at the 200 level or above. Two Shakespeare courses are strongly advised and may be required in a specific program. (Tier I junior composition does not fulfill this requirement.)

Total: 78

Minimum Grade Requirement

All theater majors are required to attain a minimum grade of C in any theater course required for graduation.

Electives

Distribution of elective hours will vary depending upon degree requirements of a particular area. You are encouraged to use your elective choices in a manner that expands upon the liberal arts experience, particularly with choices in the areas of literature, philosophy, history, and psychology. If you are in acting, you also are advised to strengthen your personal talents in the areas of music, dance, and art.

Theater Performance (Acting) Major**Major code BFS161**

(Admission by application and audition only.)

The B.F.A. in theater performance is a rigorous program fostering creative, cognitive, and artistic skills. It is intended to advance the education and training of motivated, curious, self-reliant, adaptable theater artists capable of dealing with all aspects of theater and contributing to the relationship between theater and society. Theater and performance serve as the basis of the undergraduate fine arts education. Theater is approached technically as craft and art, but also as a way of looking at, interpreting, organizing, and expressing one's ideas and thoughts. We seek serious, disciplined students interested in demanding technical training, who want the art of theater and performance to be at the core of their education.

Formal application and audition into the Theater Performance Program (TPP) takes place during the freshman year. Transfer students from other programs and institutions are accepted provided they can meet the requirements of the program, the school, and University General Education.

In addition to the University and theater core requirements, you are required to include additional electives from a broad range of areas and to maintain minimum academic and artistic standards. Tier II classes can be counted toward meeting these requirements. The B.F.A. in performance fosters diversity within the theater curriculum and in disciplines essential to a liberal arts education. Careful and consistent faculty supervision and advising are an integral part of the program.

Preparation for Admission to TPP

Freshman performance classes emphasize preparation and examination, i.e., preparation for the audition into the TPP and examination of your skills, interests, and talents. Assisted by an assigned faculty advisor, you may select coursework designed to allow broad exposure to diverse courses in the University while building a strong foundation in acting.

During the freshman and sophomore years, you will complete most of the Tier I and II University requirements as well as the freshman and sophomore components of the theater core. After your freshman year (or first quarter of residency in the case of a transfer student), you are eligible to audition for all school productions. Required coursework in acting is available to theater majors who do not join the performance program.

Transfer Students

Though it is rare to accept a transfer beyond the sophomore year, transfer students should be prepared to present a transcript, resume and a formal audition as soon as possible. After acceptance to the University, program acceptance and placement will depend upon assessment by the faculty of the candidate's past training and experience and the candidate's potential to fulfill our programmatic requirements. In most cases, transferring students should be prepared to expect some foundation course work in their programs.

Theater Performance Program

The B.F.A. in theater performance offers a curriculum of rigorous technique instruction with an emphasis on international and ensemble theater. Complementing a faculty of working professionals are an important visiting artist program and a strong internship program that includes internships in the United States and abroad. In your senior year, you are required to complete your practicum requirements in acting. The culminating experiences of the B.F.A. degree program are three quarters of acting practicums and the senior project.

Required studio performance courses are the core of the program at all three year levels. The sophomore year is dedicated to the acting foundation and the junior year to classical ensemble, leading to a senior year that emphasizes new work from original scripts to ensemble collaboration. There is programmatic interaction with the MFA programs in Directing, Playwriting, and Acting.

There is constant communication among the faculty to evaluate your progress, confirm individual progress decisions, and resolve any issues germane to your success in the program. If you are struggling academically or programmatically, you may receive a letter of concern or be placed on probation. Continued concern indicates doubt about the appropriateness of your continuation in the TPP.

Summary of Minimum Requirements

Sophomore Year Acting Ensemble Foundation	20
THAR 210 Acting I	4
THAR 211 Acting II	4
THAR 212 Acting III	4
THAR 216 Intro to Movement	2
THAR 217 Intro to Voice	6
THAR 311 Improvisation II	2
Junior Year Classical Ensemble	27
THAR 310 Audition Technique and Practice	3
THAR 312 Scene Study I	4
THAR 314 Theater Performance: Selected Topics	6
THAR 316 Movement Theater I	6
THAR 317A, B, C Voice for the Stage I, II, III	9

Senior Year Ensemble	21
THAR 410	Scene Study II: Selected Topics 4
THAR 411	Acting IV 3
THAR 414	Acting V 3
THAR 415*	Acting Practicum 6
THAR 416	Movement Theater II 2
THAR 417	Advanced Voice Training 2
THAR 418	Senior Project 2

Total Minimum Requirements 67

*In addition to theater core requirements.

Additional Electives

You are required to include electives in your program plan and are encouraged to choose from the areas listed below. Your advisor will monitor the progress of this requirement.

Foreign Language/Culture

International Studies

Philosophy, including, but not limited to, philosophy of art

Anthropology/ Political Science/History

Literature (nondramatic)

Dance and Dance History

Music and Music History

Studio Art and Art History

Management

(stage management and theater management)

Major code BF5167

(Interview, writing samples, and letter of recommendation required at the end of the freshman year for admission.)

The purpose of the management program (stage management and theater management) is to prepare students for entry into the professional theater as a stage manager. The internship with a theater organization is an important part of the program, because the students will use this to make contacts for their entry into the professional theater. In addition to select courses in the management and theater areas, the program provides practical experience to develop techniques, skills, and insight in stage management, and production stage management. The independent study and practicum courses will be used for the student to specialize in stage management or theater management by assigning students projects in their area of interest. During the first two years, you should complete much of the theater core and University general education requirements to gain a broad exposure to all areas of theater.

In addition to the course work, students will have ongoing guidance, counseling, and evaluation from their advisor. The advisor will help the student track their progress in meeting the necessary goals for entry into the stage management profession. Part of the process will include an evaluation of the student's ability to meet these goals and continue in the program.

Students will be admitted into the program based on a résumé, two letters of recommendation, completion of application form, and an interview.

In addition to University and theater core requirements, you are required to complete the following courses:

Management: 54 credits

Two courses selected from:

THAR 230	Stagecraft: Scenery	6
or THAR 231	Stagecraft: Lighting	
or THAR 232	Stagecraft: Costume	
THAR 402	Theater Management	4
	Practicum in Mgt.	4
	Practicum in Stage Mgt.	
THAR 409	Ind. Studies in Admin.	6
THAR 426	Stage Management I	3
THAR 440	Professional Theater Internship	12

THAR 428	Stage Management II	4
ACCT 101	Financial Accounting	4
MGT 202	Management	4
MGT 430	Mgt. Systems—Decision Making	4
PESS 227	First Aid	3

Playwriting

Major code BF5165

(Interview, writing samples, and letter of recommendation from Fundamentals of Playwriting instructor required at the end of freshman year for admission.)

The B.F.A. in playwriting is designed as an intensive introduction to the art of dramatic writing for the stage. Study in this major focuses upon dramatic structure, its relationship to literature, and how the spoken word functions on the stage and in performance. Students accepted into the B.F.A. playwriting program must complete a wide range of courses in addition to the core series of playwriting courses. The additional required courses include acting, theatrical design, literature, and courses in other disciplines, specifically English.

During the first two years, you should complete much of the theater core and general education requirements. In consultation with your advisor, you may also enroll in 200- and 300-level English courses that focus upon writers and literature related to your area of interest. At the end of your freshman year, you must interview, present writing samples and a letter of recommendation from the Fundamentals of Playwriting instructor for acceptance into the program. Your work will be reviewed at the end of your sophomore and junior years. Students must demonstrate significant progress in the development of dramatic writing skills for continued success in the program.

In addition to the University and theater core requirements, you are required to complete the following:

Playwriting: 51 credits

THAR 213	Acting Fundamentals II	4
THAR 250	Playwriting I	4
THAR 350	Playwriting II	4
THAR 418	Senior Project	2
THAR 438A	Historical Bases of Design I	4
or THAR 438B	Historical Bases of Design II	
THAR 450	Advanced Playwriting	4
THAR 451	Playwriting Workshop	3
THAR 459	Independent Studies in Playwriting	6
THAR 470	Tragedy	4
or THAR 471	Comedy	
or THAR 472	Forms of Drama	
or THAR 473	Seminar in Theater History and Drama: Selected Topics	
or THAR 477	American Theater and Drama	
	Two Eng. Electives* (200 level or above)	8
	Two Eng. Electives* (300 level or above)	8

*Can be used to fulfill Tier II requirements.

Production Design and Technology

Major code BF5162

(Interview and portfolio review by the end of the freshman year required for admission.)

The B.F.A. in production design and technology is available with an emphasis on the environmental aspects of performance. Design and technology in scenery, costumes, lighting, properties, sound, stage management, and crafts are taught in a series of courses and special projects throughout the four-year curriculum. Productions are prepared under the close personal advisement and participation of the produc-

tion faculty and staff. Qualified students are challenged with major creative responsibilities.

During the first two years, you should complete much of the theater core and general education requirements. In consultation with your advisor, you may also enroll in selected production design technology courses at the 200 level and above. At the end of your freshman year, you interview and present your portfolio for provisional acceptance into the program. Portfolio examples of Design and Technical work from THAR 130, 131 and 135 classes should be presented in addition to other examples of art work or technical work at the Production Design and Technology audition interview. At the end of your sophomore year, you will again present your portfolio and interview for continuing status in this program. Continuing in the program is contingent upon successful annual portfolio reviews.

In addition to the University and theater core requirements, you are required to complete the following:

THAR 230	Stagecraft: Scenery	3
THAR 231	Stagecraft: Lighting	3
THAR 232	Stagecraft: Costume	3
THAR 233	Theatrical Design Skills	3
THAR 338 or THAR 438A or THAR 438B	History of Costume Hist. Bases of Design I Hist. Bases of Design II	4
THAR 431 or THAR 432 or THAR 434	Lighting Design II Costume Design II Scene Design II	4
At least two of the following three:		
THAR 331	Theory of Lighting	4
THAR 332	Costume Design I	4
THAR 334	Scene Design	4

A minimum additional 15 credits selected from production design and technology classes numbered 300 and above, or areas related to production design and technology approved by your advisor.

Total: 43

Theater (Bachelor of Arts)

Major code BA5194

This curriculum is intended to serve students who want both a theater major and a broad liberal arts foundation for their university education. It includes a study of theater in the context of human concerns and activities by establishing a solid foundation of coursework in the humanities, sciences, cultures, and languages. It recognizes that many students in the major possess varied talents and interests. You will benefit from the rigorous artistic demands made by courses designed for B.F.A. students in the School of Theater, while also meeting the challenges of a liberal arts education. Although you are encouraged to select courses that provide an emphasis for your work, you are not permitted to major in any one area of theater or to concentrate exclusively on any one area of interest.

The B.A. program also provides an opportunity to major in more than one discipline. Second majors such as: English, history, creative writing, journalism, music, criminal justice administration, prelaw, and sociology have been successful choices.

One of the goals of the B.A. in theater is the preparation of the most gifted students for successful admission to graduate schools or other advanced training in theater or other areas. However, even if you do not wish to extend your studies beyond the baccalaureate level, the B.A. in theater addresses both the quality and the diversity of your studies.

In addition to general education and arts and sciences area requirements, the theater major includes: 70 hours of coursework:

THAR 101	Intro and Orientation to the Theater as a Profession	1
THAR 111 or THAR 113	Acting Improvisation Acting Fundamentals I*	2 4
THAR 130	Design Prin. for the Stage	3
THAR 131	Practical Elements of Stagecraft	3
THAR 171	Play Analysis	3
THAR 172	Elements of Performance	3
THAR 151 or THAR 420	Playwriting Directing	4
5 quarters of practicum (10 hours) distributed over more than one area (you will work with your advisor to ensure correct distribution)		
12 quarter hours from the following:		
THAR 270	Theater History I	4
THAR 271	Theater History II	4
THAR 272	Theater History III	4
THAR 470	Tragedy	4
THAR 471	Comedy	4
THAR 472	Forms of Drama	4
THAR 473	Seminar in Theater History and Drama	4
THAR 477	Amer. Theater and Drama	4
THAR 479	Independent Studies in Theater Hist. and Crit.	1-6

*THAR 113 is preferred. No credit for 113 if you have credit for 111.

The balance of the degree program will consist of 30 credit hours at the 200 level or above in the School of Theater. No more than 24 credit hours may count toward the degree in one (narrow) area of interest, e.g., acting, lighting, publicity, playwriting, etc. No more than 8 hours of practicum (beyond the core requirement) may count toward the degree.

You must submit a plan for the distribution of the 30 credits for consultation and approval by your advisor as a condition of your final acceptance into the major program. While sufficient flexibility for change of direction and focus must be provided throughout your residence, there must be and agreed-upon understanding of the purpose of the program of study and the plan for accomplishing that purpose.

The total requirement for a B.A. in theater is 70 credit hours.

Note: No more than 72 credits in THAR courses are allowed to count towards the 192 credits needed for the B.A.

Minor in Theater

Minor code ORTHAR

The School of Theater offers a minor designed for those students who are majoring in other fields but who wish, in the course of their formal education, to experience work in the theater.

Students who wish to declare a minor in Theater must consult with their major advisor, in addition to the advisor for minors in the School of Theater to pursue the program. Any student declaring a minor in the School of Theater must maintain a 2.0 g.p.a. in the minor.

Required Core Courses: 13

THAR 110, 111 or THAR 113	Intro to Performance, Acting Improv., or Acting Fundamentals	4
THAR 170 or THAR 172	The Theater Exper. Elem. of Performance	4 or 3
	Practicum (minimum of 3 experiences; at least 1 in PD&T or Mgt)	6

At least one course (not less than 3 credits) in each of the following groups:

- 1 THAR 130, 131 (3)
- 2 Playwriting, Directing, Acting (200 level or above)
- 3 THAR 270, 271, 272; THAR 470 series (4)

Total required groups: 11

Electives: 6

Chosen from any available courses in the School of Theater

Minimum credit hours required for minor: 30

College of Health and Human Services

<http://www.hhs.ohiou.edu/>

Grover Center

Gary S. Neiman
Dean

Lee Cibrowski
Associate Dean

Margaret Goodwin
Assistant Dean for Student Services

Terrence Brown
Assistant to the Dean for
Recruitment and Retention

The College of Health and Human Services is made up of the School of Health Sciences, the School of Hearing, Speech and Language Sciences, the School of Human and Consumer Sciences, the School of Nursing, the School of Physical Therapy, and the School of Recreation and Sport Sciences. In order to provide students with a variety of local clinical or experiential education opportunities, the schools operate the Ohio University Therapy Associates Hearing, Speech, Language and Physical Therapy Clinics, Child Development Center, Center for Sports Administration, and Nutrition Treatment Program. The College has responsibility for campus recreation and administers the following facilities: Bird Arena, golf and tennis center, Aquatic Center, and the Ping Student Recreation Center. The University employee wellness program, WellWorks, is also administered by the College.

The College of Health and Human Services is committed to promoting professional and personal growth of students by providing interdisciplinary and multicultural academic, research, and service experiences in classrooms, laboratories, clinical, and community settings. The College integrates the participation and support of alumni in program development, implementation, and evaluation.

Through support of academic, scholarly, and service activities, the College promotes professional and personal growth of faculty and the expansion of knowledge in their respective disciplines. There is a commitment to provide a positive learning and work environment for students, faculty, and staff: an environment characterized by mutual respect and concern and one that is accessible to individuals with disabilities. The College actively seeks to develop cultural and ethnic diversity among students, faculty, and staff.

The College is dedicated to the development of the total student. Academic courses, recreational programs, and wellness activities are offered to the entire University community. The College further recognizes its responsibility to provide outreach programs that include continuing education for practicing professionals, as well as health and human services to the nearby community.

Schools/Majors and Degrees

The College of Health and Human Services consists of six academic schools offering the following curricula:

School of Health Sciences

Major awarding the Bachelor of Science in Environmental Health (B.S.E.H.)

Environmental Health Science

Majors awarding the Bachelor of Science in Health (B.S.H.)

Community Health Services

Health Services Administration

Long-Term Health Care Administration

Major awarding the Bachelor of Science in Industrial Hygiene (B.S.I.H.)

Industrial Hygiene

In addition, the School of Health Sciences offers the following minor:

Environmental Health Science

School of Hearing, Speech and Language Sciences

Major awarding the Bachelor of Science in Hearing, Speech and Language Sciences (B.S.H.S.L.S.)

Hearing, Speech and Language Sciences

In addition, the School of Hearing, Speech and Language Sciences offers the following minor:

Hearing, Speech and Language Sciences

School of Human and Consumer Sciences

Majors awarding the Bachelor of Science in Human and Consumer Sciences (B.S.H.C.S.)

Dietetics

Family and Consumer Sciences Education (teaching license)

Family Studies

Interior Architecture

Nutrition with Science

Restaurant, Hotel and Tourism

Retail Merchandising

Major awarding the Bachelor of Science in Education (B.S.Ed.) conferred jointly by the College of Education and College of Health and Human Services:

Early Childhood (teaching licensure)

In addition, the School of Human and Consumer Sciences offers the following minors:

Basic and Applied Nutrition

Retail Merchandising

In addition, the School of Human and Consumer Sciences offers the following Associate Degree (A.A.S.):

Child Development

School of Nursing

Major awarding the Bachelor of Science in Nursing (B.S.N.) to registered nurses (RNs):

Baccalaureate Nursing

In addition, the School of Nursing offers the following teaching license for registered nurses (RNs):

School Nurse

School of Physical Therapy

The School of Physical Therapy does not award a bachelor's degree, but offers an entry-level doctoral physical therapy program, which leads to the Doctor of Physical Therapy (D.P.T.). Complete description of the program is available in the *Graduate Catalog*.

School of Recreation and Sport Sciences

Major awarding the Bachelor of Science in Athletic Training (B.S.A.T.)

Athletic Training

Major awarding the Bachelor of Science in Physical Education (B.S.P.E.)

Physical Education (teaching license)

Majors awarding the Bachelor of Science in Recreation Studies (B.S.R.S.)

Adventure Recreation

Outdoor Education and Camping

Recreation Management

Majors awarding the Bachelor of Science in Sport Sciences (B.S.Sp.S.)

Exercise Physiology

Sport Management

In addition, the School of Recreation and Sport Sciences offers the following minor:

Recreation

In conjunction with the College of Arts and Sciences, the college offers a Gerontology Certificate.

An entry-level doctoral degree program is offered by the School of Physical Therapy. Master's and entry-level doctoral degree and Ph.D programs are offered by the School of Hearing, Speech and Language Sciences. Master's degree programs also are available in the Schools of Health Sciences, Human and Consumer Sciences, and Recreation and Sport Sciences. All programs are described in detail in the Ohio University *Graduate Catalog*.

Admission Requirements

Freshmen admission to most of the majors offered by the college is open. The College does have several programs—athletic training education, early childhood, exercise physiology, interior architecture, physical education, retail merchandising, and sport management—for which students are admitted as pre-majors and then must meet certain criteria in order to be admitted into the major. At this time, athletic training education and early childhood are the only programs that have, in addition to the listed criteria, limited openings in the major. You must apply and be accepted into any of these majors. The baccalaureate nursing program and school nurse teaching license are available only to registered nurses (RNs). If you are interested in any of these programs, please read the more detailed description of the specific requirements and application process described later in this section of the catalog.

If you are already in an academic college at Ohio University and wish to transfer into any program within the College of Health and Human Services (except for athletic training, early childhood, exercise physiology, interior architecture, nursing, physical education, retail merchandising, or sport management, which have admission requirements), you must have a minimum accumulative g.p.a. of 2.0.

Scholarship Opportunities

Scholarships sponsored by the six schools and the College of Health and Human Services for qualified undergraduate students are available on an annual basis. Inquiries about the scholarship program should be directed to the scholarship chair of each school or the dean's office.

Academic and Other Requirements

All majors within the School of Human and Consumer Sciences have requirements that you must meet in order to remain active or progress in the major. Further information about these specific requirements can be found under each program's description later in this section.

If you plan to pursue a teaching license, you must meet the criteria for selective admission to and retention in teacher education as established by the College of Education (see "Admission to Professional Education" in the College of Education section) even though you are a major within the College of Health and Human Services.

The college's policy on internships, practica, field experiences, and student teaching requires that you be registered for the experience in the quarter that you are actually fulfilling the requirements for the course. The only exception to this requirement is an experience that takes place over winter break, in which case you may register for the course during either fall or winter quarter.

Advising

Upon entering the College of Health and Human Services you are assigned a major advisor who is a faculty member in the school in which your major program is contained. Faculty advisors assist you in the preparation of schedules and are available to discuss academic and career related topics. However, you are responsible for completing all University,

college, and school requirements for the degree.

To assist you in keeping track of your progress in completing degree requirements, you will receive a DARS (Degree Audit Reporting System) report each quarter during preregistration. This report lists the requirements for your degree and your progress in completing them. If you are interested in determining your progress for other or additional majors, the Student Services Office within the dean's office can provide you with a "what if" DARS report.

Graduation Requirements

To qualify for baccalaureate conferral, each graduation candidate in the College of Health and Human Services must earn at least 192 quarter hours of acceptable credit with a minimum accumulative g.p.a. of 2.0 and a minimum g.p.a. of 2.0 in the major; complete the major program requirements; and fulfill the University's General Education Requirements. If you are pursuing a teaching license, you must have a minimum accumulative grade point average of 2.75 and a g.p.a. of 2.75 in each teaching field you are pursuing.

Professional Certification or Licensure

A number of the majors within the college will provide you with the opportunity to sit for either a certification or licensure exam. A teaching license will be awarded upon conferral of your degree if you successfully complete the major requirements, including those specified under the College of Education regarding admission to and progress in teacher education, in early childhood, family and consumer sciences education, and physical education, plus pass the Praxis II exam. If you are majoring in hearing, speech and language sciences, you can begin to pursue a teaching license as an undergraduate, but the requirements for licensure are completed in the master's program.

You will be eligible to sit for the appropriate licensing or certification exam if you successfully complete any of the following majors: athletic training or long-term health care administration. Completing either the dietetics or nutrition with science options fulfills the academic component for becoming a registered dietitian, but not the internship component. The environmental health science major fulfills the educational requirements for registration as a sanitarian. Completing

the community health services program enables you to sit for the Certified Health Education Specialist (CHES) exam. While Ohio University does not have a certified Child Life Specialist (C.L.S.) program, our Family Studies program is the recommended way to go if you are interested in pursuing this profession. These and other specific program requirements can be found in the description of each school on the following pages.

Special Information for Students

The College of Health and Human Services provides opportunities for educational, leadership, and professional development through its honoraries and professional organizations.

Phi Upsilon Omicron, the national family and consumer sciences honorary, has an active chapter in the School of Human and Consumer Sciences. Nursing students can be elected to Sigma Theta Tau, the international nursing honorary. Eta Sigma Gamma, the national health science honorary, has an active chapter in the School of Health Sciences.

You are encouraged to participate in student professional organizations within your major or area of interest. Recognized professional organizations within the college include:

School of Health Sciences

Future Health Care Administrators
Industrial Hygiene/Environmental Health Student Organization

School of Hearing, Speech and Language Sciences

Hearing, Speech and Language Sciences Undergraduate Research Club
National Student Speech-Language and Hearing Association
National Association of Future Doctors of Audiology

School of Human and Consumer Sciences

American Association of Family and Consumer Sciences
Child Life Student Organization
Design Group, Ohio University
Fashion Associates
Hospitality Association, Ohio University
Ohio University Student Dietetic and Nutrition Science Association
Professional Retail Leaders
Student Early Childhood Organization

School of Physical Therapy

Pre-Physical Therapy Club

School of Recreation and Sport Sciences

Exercise Physiology Club
Physical Education Club
Recreation Education Club
Sport Marketing Club
Student Athletic Trainers' Club

Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

Global Leadership Center

For information about the Global Leadership Center, refer to the program description in the College of Communication section.

Gerontology Certificate Program

The College of Health and Human Services and the College of Arts and Science jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program who want to gain knowledge and skills for a career that involves working with the elderly. Since the knowledge and research associated with aging span a variety of disciplines, course work in a number of established departments facilitate student learning opportunities. Health care, social services, recreation, mental health, education, administration, and business are examples of service areas that now employ large numbers of persons working with and for the aging population.

Certificate Requirements

You must successfully complete at least 28 credit hours from the following list of courses including an approved practicum, field experience, or internship. The required gerontology-oriented practicum, field experience, or internship cannot contribute more than 5 credit hours to the total 28 hours required for the certificate.

HCCF 380	Death and Dying	4
HCCF 462F	Family Ties and Aging	4
HCFN 260B	Lifespan Nutrition: The Adult and Geriatric Years	1
HLTH 225	Long-Term Care Admin. I	4
HLTH 290	Health Aspects of Aging	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 405	Long-Term Care Admin. III	4
HLTH 406	Alternatives to Traditional Long-Term Care	4
HS 491	Special Topics in Gerontology	1-4
HSL5 300	Aging and Disorders of Communication	4
PESS 421	Principles of Aging and Physical Activity	4
CLWR 482	Thinking About Death	4
PSY 374	Psychology of Adulthood and Aging	4
SW 381	Counseling Older Adults	4
SW 440	Mental Health and Social Work	4
SW 486	Aging in American Society	4

Other courses may be substituted with prior approval of program coordinator

Practicum/Field Experience Options

HCCF 499	Field Experience in Family Studies	12
HLTH 364	Community Health Field Experience	1-5
HLTH 464	Community Health Services Practicum	15
HLTH 480	Practicum in Health Admin.	10
HLTH 480B	Practicum in Long-Term Care Admin.	15
HLTH 481	Internship in Health Admin.	15
HLTH 482	Internship in Long-Term Care Admin.	15

Social work majors must enroll in the following three social work (SW) courses:

SW 396	Social Work Practice I	4
SW 491A	Integrative Seminar	2
SW 492A	Field Practicum	4

Other courses may be substituted with prior approval of program coordinator

If you are interested in the certificate you can obtain an application form from your college's Student Service Office. After completing the application and obtaining the coordinator's signature, return the form to that office. Each quarter on your DARS (Degree Audit Reporting System) Report, you will be able to track your progress in the certificate program. The Gerontology Certificate will be awarded upon graduation if you have successfully completed the certificate requirements, and a notation of the certificate will be recorded on your permanent record (transcript). For more information on course offerings or other concerns, contact the coordinator of the Gerontology Certificate Program.

School of Health Sciences

Matthew Adeyanju, Director

The School of Health Sciences is designed to serve students with diverse career interests: community health services, environmental and occupational health and safety, and health administration. Basic preparation for these careers is accomplished by completing the professional curricula that lead to a Bachelor of Science in Environmental Health, Bachelor of Science in Health, or Bachelor of Science in Industrial Hygiene.

The opportunities vary for professional preparation in the school. Community health services prepares students for entry-level staff and management positions in public-health and health-promotion agencies, social task force agencies, and other noninstitutional health agencies. Students are taught the skills needed for assessing and planning health programs according to the needs of the community being served.

Environmental and occupational health and safety students focus their studies on factors that may cause or contribute to impaired health of individuals in any environmental setting. The industrial hygiene option deals with industrial hazards and how they affect individuals in the workplace. The environmental health option prepares students for a career in one of the many fields of public health. It also qualifies students to sit for the examination to obtain professional registration as a sanitarian.

Health administration programs focus on preparing students for entry-level management positions in hospitals, long-term care facilities, and other health delivery systems. Blending business techniques and tools with health care applications and principles, students are taught to deal with complex organizational structures and associated business complexities. Students electing to specialize in long-term care administration receive an undergraduate Gerontology Certificate and are eligible, upon completion of the degree, to sit for the Ohio and National Nursing Home Administrator's licensure examination.

Most programs provide either practica and/or internships in order to provide students with practical experiences complementary to their academic coursework.

Note: Most courses offered through the School of Health Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

Community Health Services

Major code BS8105

This program prepares health professionals for positions in community/public health. A community health educator may be employed at a health department, service organization, volunteer agency, state or federal health agency, or a work place. The goal is to improve the health of their clients/employees and lower healthcare expenditures. The health educator is responsible for assessment, planning, implementation, and evaluation of programs. In addition to these responsibilities, the health educator is expected to coordinate health programs as they communicate effectively and serve as a resource in the community. A Bachelor

of Science in Health will be awarded to those students completing the prescribed course of study and officially applying for degree conferral.

Health Education Core

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 203	Foundations of Health	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
HLTH 210 or HLTH 212	Health of Women Controlling Stress and Tension	4
HLTH 215	Violence in America	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology	2
HLTH 270	Consumer and Family Health	4
HLTH 290 or HCCF 380	Health Aspects of Aging Death and Dying	4
HLTH 300	Worksite Health	2
HLTH 320	Strategies for Communicating Health Information	4
HLTH 345	School Health	4
HLTH 390	Community Health	4
HLTH 412	International Health Programming	4
HLTH 464	Community Health Services Practicum	15
HLTH 489	Program Planning	4

Health Science Core

BIOS 225	Genetics in Human Society	3
BIOS 345	Human Physiology	4
EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regs.	4
HLTH 330	Epidemiology	4
PSY 221	Statistics for the Behavioral Sciences	5
Selecting one grouping of science courses:		
Option one:		
BIOS 103	Human Biology I	5
BIOS 203	Human Biology II: Essentials of Anatomy and Physiology	4
BIOS 204	Human Biology Lab II: Functional Anatomy	1
Option two:		
BIOS 170	Introduction to Zoology	5
BIOS 171	Introduction to Zoology	5
BIOS 300	Anatomy and Histology	6
or BIOS 301A and 301B	Human Anatomy and Hum. Anatomy Lab 3+2	
Note: BIOS 301A and 301B must be taken together.		

Required Related Courses

ANTH 101 or INST 103 or INST 113 or INST 121	Intro to Cultural Anthro. Modern Asia Modern Africa Interdisciplinary Survey of Latin Am.	5 or 4
CHEM 101 or CHEM 121 or CHEM 151	Chemistry Applied to Today's World Principles of Chemistry I Fund. of Chemistry I	4 or 5
HCFN 128	Intro to Nutrition	4
COMS 101	Fund. of Human Comm.	4
MATH 113 or MATH 163A or MATH 263A	Algebra Intro to Calculus Calculus	5 or 4
MGT 202	Management	4
BIOS 221	Basic Microbiology	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	4

Environmental and Occupational Health and Safety

Environmental and occupational health and safety professionals are trained to evaluate and control environmental factors that may cause or contribute to health problems. Two distinct majors are available.

The environmental health science option prepares you for a career in one of the many fields of public health. It also fulfills

the educational requirements for registration as a sanitarian and for admission to a graduate school of public health. The Bachelor of Science in Environmental Health will be awarded upon completion of the prescribed course of study and official application for degree conferral.

The industrial hygiene option prepares you for a career as an industrial hygienist. An industrial hygienist is concerned with evaluating and controlling workplace environmental exposures that affect workers' and the public's health and safety. Industrial hygiene is one of the leading occupational safety professions. After graduation you will be competitive in an expanding job market with major corporations, consulting firms, insurance agencies, and government agencies. In addition, the program will prepare you for admission to graduate school in industrial hygiene, environmental science, and public health. When you have completed the prescribed course of study and officially applied for degree conferral, you will be awarded the Bachelor of Science in Industrial Hygiene.

Environmental Health Science

Major code BS6260

Environmental Health Science

EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Reg.s	4
EH 425	Environmental Health and Safety Risk Communication	4
EH 435	Environmental Health Sciences Lab	2
EH 464	Environ. Health Practicum	15
EH 491	EH/IH Professional Topics Seminar	1

Industrial Hygiene

IH 200	Intro to Ind. Hygiene, Occup. Safety, and Health	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4

Sciences

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
BIOS 221	Microbes + Humans	4
BIOS 222 or CHEM 303	Microbes + Humans Lab Organic Chemistry Lab	2
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6

Required Related Courses

ECON 103	Prin. of Microeconomics	4
HLTH 330	Community Health Epidemiology	4
PHIL 130	Intro to Ethics	4
PHYS 201	Intro to Physics	5
PHYS 202	Intro to Physics	5
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 5
SOC 101	Intro to Sociology	4

Even if your mathematics placement exam result is MATH 263 (which means that you have demonstrated quantitative skills sufficient to meet the Tier I requirement), you must complete one of the following:

MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

Required Elective Courses

EH/IH Electives (select a minimum of 8 courses)

EH 310	Water Supply and Wastewater Environ. Health Practice	3
EH 312	Solid and Hazardous Waste Mgt	4
EH 320	Shelter Environments	4
EH 330	Food Quality Control	4
EH 430	Vector Control and Pesticide Use	3

EH 440	Air Quality and Pollution Control	3
EH 450	Institutional Environ. Health Practice	4
EH 455	Recreational Environ. Health Practice	4
EH 457	Occupational Safety and Health Adm.	4
IH 405	Ventilation for Contaminant Control	4
IH 410	Physical Hazards: Evaluation and Control	4
IH 415	Intro to Radiological Health	4
IH 420	Hazardous Material: Mgt and Control	4

General Science Electives (select a minimum of 3 courses. Prerequisite courses do not count toward the 3 course minimum. Courses with laboratories are considered as one elective only.)

BIOS 203	Human Biology II: Essentials of Anatomy and Physiology	4
BIOS 300	Anatomy and Histology	6
BIOS 301A, 301B	Human Anatomy and Hum. Anatomy Lab	5
BIOS 321	General Microbiology	5
BIOS 421A, 421B	Immunology and Lab	6
BIOS 422	Microbiological Techniques	5
BIOS 423A, 423B	Pathogenic Bacteriology and Lab	5
BIOS 424A, 424B	Animal Virology and Lab	5
BIOS 441A, 441B	Parasitology and Lab	5
GEOL 231	Water and Pollution	4
GEOG 201	Environmental Geography	4
GEOG 268	Computer Applications in Geography	4
GEOG 357	Environmental Law	4
GEOG 370	Geographic Info. Systems Applications	4

Industrial Hygiene

Major Code BS3309

IH 200	Intro to Ind. Hygiene, Occup. Safety, and Health	4
IH 400	Ind'l Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4
IH 405	Ventilation for Contaminant Control	4
IH 410	Physical Hazards: Evaluation and Control	4
IH 415	Intro to Radiological Health	4
IH 420	Hazardous Material: Mgt and Control	4

Environmental Health Science

EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regulations	4
EH 425	Environmental Health and Safety Risk Communication	4
EH 435	Environmental Health Sciences Lab	2
EH 457	Occupational Safety and Health Adm.	4
EH 491	EH/IH Professional Topics Seminar	1

Sciences

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
BIOS 221	Microbes and Humans	4
BIOS 222 or CHEM 303	Microbes + Humans Lab Organic Chemistry Lab	2
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6

Required Related Courses

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
HLTH 330	Community Health Epidemiology	4
MATH 163A, 163B or MATH 263A, 263B	Intro to Calculus I and II Calculus I and II	8
MGT 202	Management	4
PHIL 130	Intro to Ethics	4
PHYS 201	Intro to Physics	5
PHYS 202	Intro to Physics	5
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 5
SOC 101	Intro to Sociology	4

Required Elective Courses*EH/HLTH Electives (select a minimum of 4 courses)*

EH 310	Water Supply and Wastewater Environ. Health Practice	3
EH 312	Solid and Hazardous Waste Mgt	4
EH 320	Shelter Environments	4
EH 330	Food Quality Sanitation	4
EH 430	Vector Control	3
EH 440	Air Quality and Pollution Control	3
EH 450	Institutional Environ. Health Practice	4
HLTH 230	Medical Terminology	2

Other Electives (select a minimum of 3 courses. Prerequisite courses do not count toward the 3 course minimum. Courses with laboratories are considered as one elective only.)

Science Electives

BIOS 203	Human Biology II: Essentials of Anatomy and Physiology	4
BIOS 300	Anatomy and Histology	6
BIOS 301A, 301B	Human Anatomy and Human Anatomy Lab	5
BIOS 352 or PE55 302	Biomechanics	4
BIOS 342, 354	Principles of Physiology I and Lab	5
BIOS 343, 355	Principles of Physiology II and Lab	5
BIOS 421A, 421B	Immunology and Lab	6
BIOS 422	Microbiological Techniques	5
BIOS 423A, 423B	Pathogenic Bacteriology and Lab	5
BIOS 441A, 441B	Parasitology and Lab	5
GEOG 201	Environmental Geography	4
GEOG 268	Computer Applications in Geography	4
GEOG 357	Environmental Law	4
GEOG 370	Geographic Info. Systems Applications	4
PHIL 335	Environmental Ethics	4

Engineering Elective

CH E 448	Chemical Process Safety	3
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Business Elective

BMT 285	Government and Business	4
BMT 288	Computer Applications for Mgt	4
FIN 331	Risk and Insurance	4
HRM 320	Human Resource Management	4
HRM 425	Labor Relations	4
MGT 340	Organization Behavior	4

Minor in Environmental Health Sciences**Minor Code OR6260**

The environmental health sciences minor is particularly appropriate to science majors, such as biological sciences and chemistry, however, industrial hygiene majors are not eligible. Because of the diverse subject matter, the minor can be structured so that students of all other disciplines can benefit. The overall purpose of the minor is to offer you the opportunity to enhance the practical application of your degree. You must complete 16 hours of required courses and 8 hours of professional courses.

Required Courses

EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regulations	4
IH 200	Intro to Ind. Hygiene, Occup. Safety, and Health	4
HLTH 330	Community Health Epidemiology	4

Professional Courses (select minimum of 8 hours)

EH 310	Water Supply and Wastewater Environ. Health Practice	3
EH 312	Solid and Hazardous Waste Mgt	4
EH 320	Shelter Environments	4
EH 330	Food Quality Control	4

EH 425	Environmental Health and Safety Risk Communication	4
EH 430	Vector Control and Pesticide Use	3
EH 440	Air Quality and Pollution Control	3
EH 450	Institutional Environ. Health Practice	4
EH 455	Recreational Environmental Health Practice	4
EH 457	Occupational Safety and Health Adm.	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4
IH 415	Intro to Radiological Health	4
IH 420	Hazardous Material: Mgt. and Control	4

Health Administration

Health administration offers two options: health services administration and long-term health care administration. The health services administration option prepares you for entry-level management and staff positions in all sectors of the health care industry. You are prepared for positions in acute, subacute, and ambulatory care facilities such as hospitals, clinics, home health agencies, managed care organizations, and other emerging health delivery systems.

The long-term health care administration option prepares you for a career in the management of nursing and other long-term care facilities. It qualifies you to take the licensure examination of the Ohio Department of Health Board of Examiners for Nursing Home Administration, as well as the National Licensure Examination.

Note: If you pursue a dual major in health services administration (HSA) and long-term health care administration (LTC), you will be required to register for and complete a separate internship for each major, HLTH 481 for HSA and HLTH 482 for LTC. You only need to register and complete HLTH 480B for your practicum requirement.

At the completion of either course of study and after official application for degree conferral, you will be awarded a Bachelor of Science in Health. Upon completion of the long-term health care administration option, you will also qualify for an Ohio University undergraduate Gerontology Certificate (see "Gerontology" at the beginning of the College of Health and Human Services section).

Health Services Administration**Major code BS8119****Health Administration Core**

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
EH 260	Intro to Environ. Health and Safety	4
HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 217	Intro to Health Care Orgs.	4
HLTH 230	Medical Terminology	2
HLTH 316	Human Resource Mgt. and Trng. in Health Care	4
HLTH 340	Contemporary Problems in Health Care Org.	4
HLTH 421	Financial Admin. of Health Facilities	4
HLTH 422	Reimbursement Payment Systems in Health Care	4
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15

Required Professional Courses

ACCT 101	Financial Accounting	4
ECON 103	Prin. of Microeconomics	4

HLTH 330	Community Health Epidemiology	4
HLTH 335	Admin. of Acute Care Facilities	4
COMS 103	Public Speaking	4
MGT 202	Management	4

Plus 24 hrs from ACCT 102 or courses at the 200 level or above in ACCT, BUSL, EH, FIN, HRM, HLTH, IH, COMS, MGT, MKT.

Long-Term Health Care Administration

Major code BS6836

Health Administration Core

BIO5 103 or BIO5 170	Human Biology Intro to Zoology	5
EH 260	Intro to Environ. Health and Safety	4
HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology	2
HLTH 316	Human Resource Mgt. and Training in Health Care	4
HLTH 340	Contemporary Problems in Health Care Org.	4
HLTH 421	Financial Administration of Health Facilities	4
HLTH 422	Reimbursement Payment Systems in Health Care	4
HLTH 480B	Practicum in Long-Term Care Admin.	15
HLTH 482	Internship in Long-Term Care Admin.	15

Required Professional Courses

ACCT 101	Financial Accounting	4
ECON 103	Principles of Microeconomics	4
EDCE 410	Human Relations	3
HCCF 380	Death and Dying	4
HCFN 128	Intro to Nutrition	4
HLTH 225	Long-Term Care Admin. I	4
HLTH 290	Health Aspects of Aging	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 330	Community Health Epidemiology	4
HLTH 405	Long-Term Care Admin. III	4
HLTH 406	Alternatives to Traditional Long-Term Care	4
MGT 202	Management	4
PSY 101	General Psychology	5
PSY 374	Psychology of Adulthood and Aging	4
SW 101	Intro to Social Welfare and Social Work	3

Select one of the following four:

COMS 301	Empirical Research Applications	5
PSY 120	Elem. Statistical Reasoning	4
PSY 221	Statistics for Beh. Sciences	5
SOC 351	Elementary Research Techniques	4

Select one of the following four:

SW 3B1	Counseling Older Adults	4
SW 486	Aging in American Society	4
HSLS 300	Aging and Disorders of Communication	4
PESS 421	Principles of Aging and Physical Activity	4

Plus B hours from HCCF, PSY, SOC, or SW at the 300 level or above

are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Our nationally recognized undergraduate pre-professional program seeks to ensure a well-rounded education, which develops both the scientific and humanistic aspects of an Ohio University graduate who will function in a global marketplace in the 21st century. The curriculum integrates a sequence of arts and sciences coursework with courses designed to provide a sound understanding of normal human communication processes and an introduction to speech-language pathology and audiology. Certificate programs in gerontology and teaching English as a second language, and minors in psychology, linguistics, interpersonal communication, business, social sciences, physics, biological sciences, and Spanish are options available that broaden perspectives and support diverse career choices.

Students are provided the fundamentals necessary for graduate study. Graduate study is required for certification and employment as an audiologist or speech-language pathologist. A high percentage of undergraduate students complete the program in four years and many enter a graduate professional degree program in speech-language pathology or audiology. A variety of career options is available and there is high demand that will continue well into the future for these services.

A unique feature of our undergraduate program is a sequence of preprofessional courses designed to foster a sound understanding of and orientation to the discipline. Additionally, undergraduate students gain observation experience required for graduate-level clinical practica. Students also obtain valuable experience through volunteer work in the community through the Capstone Service Learning Program.

The School of Hearing, Speech and Language Sciences offers the resources of a major university—including diversity of faculty and coursework—yet provides individual attention to students when they are in need of help with assignments or professional guidance. The program encourages students to think clearly, and objectively, preparing them to solve problems as professionals through effective interpersonal and literacy skills. The coordinator of undergraduate education and school advisors are school faculty who guide students regularly in curriculum planning and career counseling. An honor's tutorial program in hearing, speech and language sciences is also available and allows exceptionally qualified students to interact with faculty in more depth through tutorials and learning experiences that are individually designed. For more information about this program, visit the following Web site: <http://www.ouhtc.org/>

Any undergraduate student desiring to declare a major in Hearing, Speech and Language Sciences should visit the College's Student Services Office (GROV W370). You are expected to seek advising during each pre-registration period.

Note: Most undergraduate courses offered through the School of Hearing, Speech and Language Sciences can be retaken one time (i.e., one initial registration and one retake). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade and credit hours no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

School of Hearing, Speech and Language Sciences

Brooke Hallowell, Director

The school grants a B.S. in Hearing, Speech and Language Sciences, a M.A. in speech-language pathology, a clinical doctorate in audiology (Au.D.), and Ph.D. degrees in audiology and speech-language pathology. The M.A. in speech-language pathology and the Au.D. degree programs

Hearing, Speech and Language Sciences

Major code BS5305

Major Requirements

Pre-Professional Foundation

HSL 108	Intro to Communication Disorders	5
HSL 240	Professional Orientation	3
HSL 341	Pre-Professional Service I	2
HSL 380	Basic Audiology	5
HSL 441	Pre-Professional Service II	4

Basic Human Communication Sciences

HSL 208	Phonetics	5
HSL 213	Anatomy and Physiology of Hearing, Speech and Language	4
HSL 251	Speech and Language Science	4
HSL 253	Hearing Science	4
HSL 310	Language Development	4
HSL 390	Intro to Research in HSL	4

Required Related Courses

COMS 101	Fund. of Human Communication	4
COMS 103	Fund. of Public Speaking	4
PSY 101	General Psychology	5
PSY 221	Statistics for Behav. Sci.	5
PHIL 101 or PHIL 120 or PHIL 130	Fund. of Philosophy Principles of Reasoning Intro to Ethics	4
PESS 227 or PESS 228	First Aid: Work Place Training CPR	3 or 1
PSY 275	Educational Psychology	4

Biological and Physical Science

BIOL 101 or BIOS 103 or BIOS 170	Principles of Biology Human Biology Intro to Zoology	5
PHYS 201 or PSC 101L or PSC 105L	Intro to Physics Physical World Color, Light, and Sound	5

Cultural Diversity

ANTH 101 or COMS 410 or LING 275	Intro to Cultural Anthro. Cross-Cultural Commun. Intro to Lang. and Culture	5 or 4
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Non-English Language

HSL 385A	Sign Language I	4
Two quarters of a spoken non-English language.		

Life Span

HCCF 160 or PSY 273	Intro to Child Development Child and Adolescent Psychology	4
HSL 300 or PSY 374 or SW 381	Aging and Disorders of Comm. Psychology of Adulthood and Aging Counseling Older Adults	4

Linguistics

LING 351	Fund. of Gen. Linguistics	5
LING 280 or PSY 307 or any LING course above 351	Language in America Psycholinguistics	4

Special Needs

EDSP 271 or PSY 332 or PSY 376 or EDSP 374	Intro to Educ. of Exceptional Children and Youth Abnormal Psychology Psych. Disorders of Childhood Nature and Needs of Learners/ Mild-Moderate Educational Needs	4 5
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Minor in Hearing, Speech and Language Sciences

Minor code OR5305

The minor in Hearing, Speech and Language Sciences (HSL) fosters learning-related communication science and the normal processes of human communication and will provide an introduction to the field of communication disorders. The field of HSL is inherently interdisciplinary. Few academic or clinical realms are unrelated to hearing, speech and language sciences. Study in this area is relevant to students with almost any major.

Students wishing to pursue graduate studies in any clinical field may develop a good foundation through this minor. Even those without professional interests related to communication disorders per se may benefit from an improved appreciation of issues related to a host of vital human communication issues that affect their everyday lives.

To earn a minor in HSL, a minimum of 28 hours of HSL coursework must be completed. Students considering pursuit of graduate study in the HSL programs (master's in speech-language pathology or doctor of audiology) at Ohio University are encouraged to take those courses required for graduate study, marked with asterisks below.

Required Course

HSL 108	Intro to Comm. Disorders.	5
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Elective Courses

HSL 208*	Phonetics	5
HSL 213*	Anatomy and Physiology of Hearing, Speech and Language	4
HSL 251*	Speech and Language Science	4
HSL 253*	Hearing Science	4
HSL 300	Aging and Disorders of Communication	4
HSL 310*	Language Development	4
HSL 380*	Basic Audiology	5
HSL 385	Sign Language I	4
HSL 390	Intro to Research in HSL	4
HSL 499	Independent Reading in Speech Pathology, Audiology, and Speech Sciences	3-5

*Required for admission into professional graduate programs in the areas of hearing, speech, and language sciences.

School of Human and Consumer Sciences

V. Ann Paulins, Director

The School of Human and Consumer Sciences, accredited by the American Association of Family and Consumer Sciences, offers programs in child and family studies; food, nutrition and hospitality; interior architecture; and retail merchandising. There are nine professional curricula leading to the Bachelor of Science in Human and Consumer Sciences. In addition, the school offers a two-year curriculum in child development leading to the A.A.S. degree. Graduate work leading to the M.S. degree also is offered (see the *Graduate Catalog*).

The mission of the School of Human and Consumer Sciences is to promote the quest for the improvement of quality of life and the human condition through the integration of theory, research, and practice. The school endeavors to emphasize the relationships of the needs of individuals and families across life's span to the society and environment. The school is committed to seeking innovative solutions to contemporary challenges and assumes responsibility for the dissemination of knowledge to the public to improve the quality of choice and consumption of goods and services.

The school provides a variety of activities and experiences, including a departmental honors program, the Child Development Center, the Atrium Cafe, and the Nutrition Treatment Program.

Honors Program

The School of Human and Consumer Sciences' Honors Program offers academically qualified students a more advanced and challenging educational experience related

to the study of human and consumer sciences. The program provides opportunities for involvement in scholarly independent work, one-on-one interaction with faculty, and an in-depth study of one area of human and consumer sciences.

Throughout the Honors Program, students work under the guidance of a faculty honors advisor and the Honors Program coordinator to plan and complete scholarly projects. Students complete a thesis course sequence HCGE 495H, 497H, 498H, and 499H during which a project is designed, executed, reported in writing, and presented to the students' honors advisory committee and others. Projects may be research, development of educational materials, in-depth senior term papers, or original designs. Those students who successfully complete their honors project receive special designation on their diplomas. For more information, refer to <http://www.ohiou.edu/humanandconsumer/honors.htm>

The Atrium Cafe

The primary purpose of the Atrium Cafe is to serve as a quantity food preparation and management laboratory for students in the food, nutrition and hospitality programs in the School of Human and Consumer Sciences. It is a commercial establishment housed in Grover Center—open to the public for breakfast and lunch weekdays during the academic quarter.

In addition to quantity food preparation, students use the site as a management education facility, a laboratory to learn purchasing and inventory management, and as a site to practice organizational strategy. Students in other areas of Ohio University use the Atrium Cafe to experience marketing strategy, promotional techniques, customer service, and event planning.

The mission of the Atrium Cafe in Grover Center is to provide a best-practices laboratory site for food, nutrition and hospitality students in the School of Human and Consumer Sciences, Ohio University. The operation of the Atrium Cafe will strive to achieve

- good management practices
- high quality food
- a clean and pleasant environment
- structured opportunities for student learning at introductory, intermediate, and advanced levels
- collaborative relationships with programs in the School, the College of Health and Human Services, Ohio University, and the Athens community.

Child Development Center

The Ohio University Child Development Center provides clinical opportunities for Ohio University students from the Schools of Human and Consumer Sciences, Hearing, Speech and Language Sciences, and Recreation and Sport Sciences, as well as the Department of Psychology, the College of Education, and other related departments throughout the University.

The philosophy of the Child Development Center is based on the belief that children best acquire knowledge when they are in an enriched environment that is challenging, stimulating, and nurturing. The primary commitment of the Child Development Center is to help children realize their full potential in emotional, social, cognitive, and physical development.

A second responsibility of the Child Development Center is to prepare early childhood educators. The center is also committed to research that furthers knowledge of the growth and

development of children, family relations, and educational curricula.

Finally, the center acts to support families in the Athens community, offering both developmental child care and professional knowledge of children's growth, development, and learning.

Nutrition Treatment Program

This program has four main objectives: (1) to provide learning opportunities for senior dietetic and master's-level nutrition majors; (2) to offer a health care service to community residents; (3) to provide outreach educational efforts to improve the nutrition awareness of the community; and (4) to foster research designed to promote client understanding and compliance and to maximize students' decision-making and problem-solving skills.

The Commission on Accreditation for Dietetics Education—approved program in didactic dietetic education is charged with providing students with learning based on practical experience. Through working with clients, students gain experience in nutrition assessment, developing a plan of care to meet client needs, implementing and evaluating that plan, and documenting progress in the medical record. Nutrition counseling allows dietetic majors to synthesize and apply previously acquired knowledge in a practical ambulatory-care setting under the guidance of a registered and licensed dietitian.

The Nutrition Treatment Program provides a service to area residents who show some degree of cardiovascular or other disease risk. The goal is to help at-risk individuals prevent or attenuate disease through adoption of eating behaviors appropriate to their individual health needs and lifestyle.

The Nutrition Treatment Program provides the community with educational programming on issues of current nutritional concern through newsletters, oral presentations to campus and community groups, panel discussions, and radio and television features. The goal is to increase public awareness, knowledge, and adoption of recommended nutritional practices.

The Nutrition Treatment Program fosters research designed to serve clients and encourages research that helps future dietetic professionals develop conceptual and decision-making skills.

Degree Requirements for All Majors

Candidates for the Bachelor of Science in Human and Consumer Sciences, Bachelor of Science in Education, and Associate in Applied Science degrees must fulfill the University General Education Requirements and complete a minimum of 192 hours for B.S. and 96 hours for A.A. (see "General Education Requirements" in the Graduation Requirements—University Wide section). A g.p.a. of 2.0 (C) is required in all hours attempted (both overall and in your major) but includes only final hours and grade points on retaken courses. Some programs have additional criteria that must be met. In addition, you may be required to have a g.p.a. higher than 2.0 (C) to obtain certain field experiences or internships, to be admitted to teacher education, or to be admitted to graduate school or student teaching.

Note: most undergraduate courses offered through the School of Human and Consumer Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation), but can be repeated for credit to count toward your degree.

Early Childhood

Major code B56355

The early childhood major, jointly offered by the College of Education and College of Health and Human Services, prepares you to teach children three years old through third grade. In addition to being qualified to teach in primary grades, you can also teach in preprimary programs such as public school preschools, nursery schools, child-care centers and Head Start programs.

You must meet the criteria for selective admission to and retention in teacher education as established by the College of Education (see "Admission to Professional Education" in the College of Education section). Enrollment in the program is limited to promote quality instruction, appropriate field placement and effective advising. Not all students who apply and meet the minimum criteria will be accepted. Contact your Office of Student Services or your academic advisor for details on the Early Childhood restrictive admission criteria and process.

Students interested in the early childhood major will enter Ohio University with a pre-major code of ND6355 (Pre-Early Childhood). If you are enrolled in a different major or college at Ohio University and you wish to transfer into this major, you must either declare the pre-major code, ND6355, if you don't meet the admission criteria or apply for admission if you do meet them. You must have at least a 2.0 g.p.a. to declare the non-degree code. To be admitted into the major, you must apply and be accepted after successful completion of the admission criteria.

Admission criteria and processes are:

1. Completion of 45 quarter hours of credit with an overall grade-point average (g.p.a.) of 2.75. A current DARS and, if a transfer student, transcripts from previous coursework at other institutions must be submitted with the application materials.

2. You must complete the following courses with a grade of C (2.0) or better in each course.

COMS 103	Fundamentals of Public Speaking	4
HCCF 160	Intro to Child Development	4
HCCF 160A	Observation and Assessment	4
HCCF 170	Intro to Early Childhood Education	3
PSY 101	General Psychology	5
	One science course with laboratory	5 or 6
	One Tier I freshman composition course	5
	Two math courses (MATH 120 or higher)	

3. Satisfactory score on the PRAXIS I (PPST/CBT) Test. You must achieve scores of 172 or above in writing and mathematics and 173 or above in reading OR be exempt from the test due to a standardized test score. You must have a composite score of 21 or better on the ACT and/or 990 or better on the SAT to be exempt. Students can not enroll in education courses until this requirement is met.

4. Submission of a statement confirming that your record is clear of any felony convictions, obtained by Student Services in the College of Education.

5. Submission of results of the tuberculosis skin test (administered by Hudson Health Center or other appropriate office).

6. Submission of two professional references.

Transfer students must meet all of the above requirements. Official transcript(s) from the previous institution(s) attended must be submitted.

Procedure for application:

1. Complete the requested information online (<http://www.EarlyChildhoodEducationApplication/>) and submit application by June 1.

2. Request letters of recommendation from at least two professional people who can address your qualifications for admission into the early childhood major and Professional Education. Provide these references with the Web site listed above. The reference letters must be submitted electronically by June 1.

3. Submit in person or by mail items 3-5 above. These items must be received by June 1 of the year in which you apply at the School of Human and Consumer Sciences, Grover Center W324, Ohio University, Athens, OH 45701.

Students who are admitted to the early childhood major will automatically be admitted to Professional Education.

Graduates of the program will be awarded the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and after passing the Praxis II exam, you are eligible for an Ohio two-year provisional teaching license in Early Childhood Education.

Required General Education

Ohio requirements for teacher licensure state that you must complete a general studies program that include the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier I quantitative course requirements that you must fulfill are:

MATH 120*, 121, 122	Elementary Topics in Math	10
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*NOTE: These math courses are recommended; however, any math courses number 120 or above (except MATH 151) and totaling 10 hours will be acceptable.

Specific Tier II course requirements that you must fulfill are:

Social Sciences Requirement

PSY 101	General Psychology	5
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Select one course from the following American History or Political Science courses:

HIST 200	U.S. History 1600-1865	4
HIST 201	U.S. History Since 1865	4
POLS 101	American National Government	4
POLS 102	Issues in American Politics	4
POLS 103	The United States in World Affairs	4

Biological Science Requirement

BIOL 101	Principles of Biology	5
or BIOS 170	Intro to Zoology	
or PBIO 100L	The World of Plants w/Lab	
or PBIO 114	Foundations of Plant Biology	6

Earth Science Requirement

GEOG 101	Physical Geography	5
or GEOL 101	Introduction to Geology	

Physical Science Requirement

PSC 100, PSC 140	Survey of Astronomy, Observ. Astr. Lab	5
or PSC 100D, PSC 140	Moons and Planets:	
	The Solar System and Observ. Astr. Lab	
or PSC 101L	Physical World	
or PSC 105L	Color, Light, and Sound	
or PHYS 201	Intro to Physics	

In addition, you must complete COMS 103, Fundamentals of Public Speaking, before you can apply for admission into Professional Education in the College of Education.

Professional Early Childhood Requirements

You must earn at least a C (2.0) or better grade in all of the following courses

HCCF 160	Intro to Child Development	4
HCCF 160A	Observing and Recording Children's Behavior	3
HCCF 170	Intro to Early Childhood Education	3
HCCF 260	Diversity in Early Childhood Education	3
HCCF 260L	Clinical: Diversity in Early Childhood Ed.	1
HCCF 361	Guidance and Classroom Mgt. in Early Childhood	3
HCCF 361L	Clinical: Guidance and Classroom Mgt in Early Childhood	1
HCCF 363	Creative Experiences in Early Childhood	4
HCCF 363L	Clinical: Creative Exp. in Early Childhood	1
HCCF 371	Family and Life Span Development	3
HCCF 455	Curriculum and Teaching Strategies in Early Childhood	4
HCCF 455L	Clinical: Curriculum and Teaching Strategies in Early Childhood	2
HCCF 463	Administration in Early Childhood	3
HCCF 465	Parent Education	3
HCCF 467	Philosophy and Theories of Child Development	3

Related Requirements

HCFN 128	Intro to Nutrition	4
NRSE 303	Health and Safety in Early Childhood	3
PESS 270	Teaching of Physical Education	3

Professional Education Requirements

You must complete the following courses with a 2.75 g.p.a. and no grade below a C (2.0):

EDCT 203	Technological Applications in Education	4
EDTE 220	Phonics and the Structure of Language	5
EDTE 371C	Instructional Adaptations for Learners with Exceptionalities and Diverse Needs in Early Childhood	4
EDEC 206	The Integrated Curriculum for Early Childhood	4
EDEC 225	Emergent Reading/Literature	3
EDEC 319	Reading and Literature in the Early Childhood Classroom	5
EDEC 330	Teaching Young Children Mathematics	3
EDEC 330L	Teaching Young Children Mathematics—Field/Clinical	1
EDEC 340	Teaching Science for Young Children	4
EDEC 340L	Teaching Science for Young Children—Lab	1
EDEC 350	Teaching of Social Studies in Early Childhood	3
EDEC 350L	Teaching of Social Studies in Early Childhood—Field Experience	1
EDEC 421	Observing Young Children Reading Strategies and Skills	for 2
EDEC 421L	Observing Young Children for Reading Strategies and Skills—Lab	2
EDSP 271	Intro to the Education of Exceptional Children and Youth	4

Student Teaching Experiences

EDPL 458, 459	Student Teaching in Early Childhood (K-3)	13
EDPL 465	Student Teaching Seminar	3
HCCF 474	Student Teaching in Early Childhood (Preschool)	6
HCCF 400	Senior Seminar	3

Child Development (A.A.S.)**Major code AA1106**

The School of Human and Consumer Sciences offers an Associate in Applied Science in child development on the Athens, Lancaster, and Southern campuses. The program meets the requirements for prekindergarten associate teacher licensure in Ohio. To be eligible for licensure you must have a g.p.a. of 2.5 or higher. If you plan to pursue

licensure in Early Childhood Education, you must maintain a 2.75 g.p.a. Consult with the director of human and consumer sciences in Athens, or the director of child development at either the Lancaster or Southern campus for additional information, including employment opportunities and continuation into the baccalaureate degree program.

Note: the HCCF 366, Practicum in Early Childhood Education, experience is not equivalent to the HCCF 474, Student Teaching in Early Childhood, and HCCF 400, Senior Seminar, teaching experience. Therefore, HCCF 366 will not be substituted for these classes. If you plan on continuing with the bachelor's degree program, consult with your advisor.

Core Requirements: 63 hours

HCCF 160	Intro to Child Dev.	4
HCCF 160A	Observing and Recording Children's Behavior	3
HCCF 170	Intro to Early Childhood Education	3
HCCF 260	Diversity in Early Childhood Education	3
HCCF 260L	Clinical: Diversity in Early Childhood Education	1
HCCF 361	Guid. and Classroom Mgt. in Early Childhood	3
HCCF 361L	Clinical: Guid. and Classroom Mgt. in Early Childhood	1
HCCF 363	Creative Exper. in Early Childhood	4
HCCF 363L	Clinical: Creative Exper. in Early Childhood	1
HCCF 364	Premath and Science with Young Children	4
HCCF 365	Infant and Toddler Education	3
HCCF 365L	Infant and Toddler Lab	3
HCCF 366	Practicum in Early Childhood Education*	6
HCCF 371	Family and Life Span Development	3
HCFN 128	Intro to Nutrition	4
EDEC 206	Intro to Integrated Curriculum	3
EDEC 225	Emergent Reading/Literature	3
EDCT 203 or CS 120	Technological Appl. in Educ. Computer Literacy	4
EDSP 271	Intro to Educ. of Exceptional Children and Youth	3
PESS 228	CPR	1
NRSE 303	Health and Safety in Early Childhood	3

*HCCF 366 is a half-day student teaching experience. You must sign up one year in advance.

General Education Requirements: 39–40 hours

Tier I	Freshman Composition	5
Tier I	Quantitative Skills (MATH 120 recomm.)	4–5
Tier II	Breadth of Knowledge	30

Note: HCCF 160 and HCFN 128 count toward the 30 hours for Tier II.

Minimum required for graduation: 96

Family and Consumer Sciences Education**Major code BS6370**

This program prepares you for teaching family and consumer sciences in grades four and beyond (middle school through high school/adult). You must meet the criteria for selective admission to and retention in teacher education established by the College of Education (see "Admission to Professional Education" in the College of Education section), including a 2.75 g.p.a. in your major, in required professional education courses, and overall. Upon completion of this program and after passing the Praxis II exam, you are eligible for the provisional Ohio vocational family and consumer sciences teaching license.

Required General Education

Ohio requirements for teacher licensure state that you must complete a general studies program that includes

the arts, communications, history, literature, mathematics, philosophy, science, and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that will fulfill both Ohio University's General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier II course requirements that you must fulfill are:

CHEM 121	Prin. of Chemistry	4
or CHEM 151	Fund. of Chemistry	or 5
PSY 101	General Psychology	5

In addition, you must complete COMS 103 Fundamentals of Public Speaking before you can apply for admission into Professional Education in the College of Education.

Major Requirements

HCGE 110	Educ. in Family and Consumer Sciences	2
HCCF 160*	Intro. to Child Devel.	4
HCCF 270*	Family Living	3
HCCF 299*	Intro to Human Services— Prof. Assessment	3
HCCF 360	Human Sexualities	4
HCCF 361	Early Childhood Guidance and Mgmt	3
HCCF 361L	Clinical/Early Childhood Guidance and Management	1
HCCF 371*	Family and Life Span Development	3
HCCF 399*	Junior Practicum— Prof. Development	5
HCCF 452	Mgt for the Disabled Homemaker	4
HCCF 462A	Diversity in Families	4
HCCF 462B	Parenthood	4
HCCF 462C	Middle Childhood	4
HCCF 462E	Youth Identity Crisis	4
HCCF 462F	Family Ties and Aging	4
HCCF 471*	Family Life Education	4
HCFN 120*	Meal Management	3
HCFN 128*	Intro. to Nutrition	4
HCFN 222*	Food Science Principles	4
HCGE 340*	Teaching of Family and Consumer Sciences Ed	4
HCIA 180*	Intro to Residential Design and Architecture	3
HCRM 250*	The Consumer in Am. Soc.	4
HCRM 283*	The Apparel Process	4
HCRM 315	Elementary Textiles	4
HLTH 202*	Intro to Health and Lifestyle Choices	4
COMS 205 or EDCE 410	Group Discussion Human Relations	4 or 3

*C (2.0) or better required

Required Professional Education Courses

You must complete the following courses with a 2.75 g.p.a. and no grade below a C (2.0).

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Characteristics of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Typical and Exceptional Student Development	2
EDCT 203	Technological Applications in Education	4
EDCS 301	Educ. and Cultural Diversity	3
EDTE 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400	School, Society, and the Prof. Educator	4
EDPL 463, 464	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3
EDSE 350	Secondary School Planning and Instruct.	4
EDSE 351	Instructional Process and Curriculum	5

Family Studies

Major code BS6351

The program prepares you to work with clients at various developmental stages—children, adolescents, adults, or

seniors. It includes family and child development classes in the School of Human and Consumer Sciences, as well as courses relating to such issues as single parenthood, child guidance, and aging. Required related courses from other departments include psychology, sociology, and social work. A required junior practicum and quarter of full-time field experience in human services provide practical experience and the opportunity to take theory into practice.

If you choose to add the optional undergraduate Gerontology Certificate to your degree, you'll also gain in-depth knowledge and skills for careers that involve working with older adults.

Ohio University does not have a certified Child Life Specialist (CLS) program. However, our Family Studies program is the recommended way to go if you are interested in pursuing this profession. Please be aware this is an extremely competitive field, and you need to be willing to take some extra steps in order to be competitive for an internship. This includes maintaining a high g.p.a. In addition to the courses listed below, and some specific experiences you should have in your field experiences and internship, it is highly recommended that you take the following two classes: HLTH 230, Medical Terminology and HSL 378, Sign Language. For more information about the Child Life Specialist field, contact Dr. Jenny Chabot, School of Human and Consumer Sciences or check the school's Web site (<http://www.ohio.edu/humanandconsumer/>) for further information.

Family studies graduates find employment in family services, children's services, adolescent group homes, rehabilitation centers, community programs for the developmental disabled, senior citizen centers, family planning centers, mental health agencies, and probation services.

Major Requirements

HCCF 160* or PSY 273*	Intro to Child Dev. Child and Adolescent Psych.	4
HCCF 270	Family Living	3
HCCF 299*	Intro to Human Services— Prof. Assessment	3
HCCF 360	Human Sexualities	4
HCCF 361	Guidance and Classroom Man- agement in Early Childhood	3
HCCF 361L	Clinical: Guidance and Class room Management in Early Childhood	1
HCCF 371*	Family and Life Span Development	3
HCCF 380	Death and Dying	4
HCCF 399*	Junior Practicum— Prof. Development	5
HCCF 400	Senior Seminar	3
HCCF 444 or HCCF 471	Adult Education Family Life Education	4
HCCF 462A	Diversity in Families	4
HCCF 462B	Parenthood	4
HCCF 462C	Middle Childhood	4
HCCF 462E	Youth Identity Crisis	4
HCCF 462F	Family Ties and Aging	4
HCCF 499*	Field Experience—Family Studies	12

Required Related Courses

EDCE 410	Human Relations	3
HCFN 128	Intro to Nutrition	4
HCIA 180	Intro to Residential Design and Arch.	3
HCRM 250	Consumer in Amer. Society	4
MGT 202	Management	4
PESS 227	First Aid: Work Place Training	3
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
PSY 332 or PSY 376	Abnormal Psychology Psychological Disorders of Childhood	4
PSY 233	Psychology of Personality	4
SOC 101	Intro to Sociology	4
SOC	Any 200-level	4
SOC 261	Deviant Behavior	4

SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an institution	4
Select one of the following SOC courses:		
SOC 315	Individual in Mass Society	4
SOC 334	Sociology of Aging	4
SOC 363	Juvenile Delinquency	4
SOC 365	Sociology of Mental Illness	4
SOC 414	Contemporary Social Movements	4
SOC 416	Society and the Individual	4
SOC 467	Violence Against Women	4
Select two of the following SW courses:		
SW 380	Child Abuse and Neglect	4
SW 382	Understanding Alcohol Problems and Alcoholism	4
SW 383	Intro to Social Work Practice Methods	4
SW 384	Social Work Law	4
SW 390	Social Policy	4

* C (2.0) or better required

Food, Nutrition and Hospitality

Program Standards

To remain active in any program option listed as Food, Nutrition, and Hospitality you must meet the following criteria:

- 1 Maintain overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Earn at least a C (2.0) or better in each course listed under Major Requirements and Related Requirements (both dietetics and nutrition with science majors).

or

Earn at least a 2.0 (C) in each course listed under Major Requirements (Restaurant, Hotel and Tourism major).

You must successfully earn a C (2.0) in all required HCFN courses by the end of the third enrollment in each course. Other schools and departments may also limit the number of times you may retake a course. If, after your second enrollment in a HCFN course, you have not earned a C (2.0) or better, you will receive a letter from the food, hospitality, and nutrition coordinator informing you that you must obtain a satisfactory grade at the end of the next enrollment in that course or you will be dropped from the major.

Note: To become a registered dietitian, you must first complete a minimum of a bachelor's degree and course work approved by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, followed by a CADE-accredited or approved, supervised practice program, which typically lasts 6-12 months, at a health-care facility, community agency or a foodservice corporation (may be combined with undergraduate or graduate studies). Finally, you must pass a national examination administered by the Commission on Dietetic Registration.

Two majors at Ohio University meet the first step of this process, Dietetics and Nutrition with Science. The program is currently granted developmental accreditation by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, 312.899.5400. CADE has established a process for making complaints against dietetic education programs. Please refer to <http://www.eatright.org/Public.7782.cfm> for the procedure or for more information about CADE.

Note: If you are applying for a post-graduation internship or graduate program, you should be aware that they generally require a minimum accumulative g.p.a. of 3.0 (B) or higher. Completing the graduation requirements of Ohio University and meeting requirements of the Dietetics or Nutrition with Science major does not guarantee that you will be accepted into post-baccalaureate programs for professional experience or graduate study. You must apply to and be granted acceptance into such programs.

Dietetics

Major code B56360

This program qualifies you to apply for a dietetic internship (supervised practice) to become a registered dietitian.

Major Requirements

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 260A	Lifespan Nutrition: Maternal to Adolescence	2
HCFN 260B	Lifespan Nutrition: The Adult and Geriatric Years	1
HCFN 299	Sophomore Practicum—Professional Awareness	1
HCFN 330	Food Sanitation and Safety	2
HCFN 333	Principles of Quantity Food Production	2
HCFN 334A	Intro to Food Production: Dietetics	2
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A†	Field Experience	5
HCFN 400A	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 424	Medical Nutrition Therapy I	4
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Medical Nutrition Therapy II	4
HCFN 432	Research Design and Methods in Nutrit.	3
HCFN 437	Food Service Cost Control	4
HCFN 499A	Nutrition Counseling	2
HCFN 499C	Nutrition Counseling Practicum	1

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 101	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171	Intro to Zoology	10
BIOS 221, 222 or BIOS 321	Microbes and Humans Plus Lab General Microbiology	6 or 5
BIOS 300 or BIOS 301A and 301B	Anatomy and Histology Human Anatomy and Hum. Anatomy Lab3+2	6
Note: BIOS 301A and 301B must be taken together		
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
BIOS 445 or PESS 414	Physiology of Exercise Physiology of Exercise	4
BIOS 463 or CHEM 489	Cell Chemistry Basic Biochemistry	4
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 or 15
CHEM 301, 302	Organic Chemistry	6
COMS 101 or COMS 103	Fund. of Human Communication Fund. of Public Speaking	4
CS 120 or MIS 101 or MIS 201B	Computer Science Survey Intro to Microcomputers Intro Information Analysis and Design	4 or 3 or 4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 371	Family and Life Span Development	3
HCRM 250 or HCIA 180	Consumer in Amer. Society Intro to Residential Design and Arch.	4

HLTH 230	Medical Terminology	2
HRM 320	Human Resource Management	4
JOUR 250	Advertising Principles	4
MGT 202	Management	4
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	4

If your mathematics placement exam result is lower than MATH 263, you must complete one of the following:

MATH 113	Algebra	5
MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

ECON 104	Principles of Macroeconomics	4
HCCF 371	Family and Life Span Development	3
HCRCM 250 or HCIA 180	Consumer in American Society Intro to Residential Design & Architect.	4 or 3
HRM 320	Human Resource Management	4
HRM 425	Labor Relations	4
JOUR 250	Advertising Principles	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	4

Math Requirement

If your mathematics placement exam result is lower than MATH 263, you must complete one of the following:

MATH 113	Algebra	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

Additional Courses, Restaurant Track

HCFN 299B	Sophomore Practicum: Intro Food Service	4
HCFN 335	Food Service Purchasing	4
HCFN 360	Catering Practicum	1-3
HCFN 419	International Cuisine	4

Additional Courses, Hotel and Tourism Track

HCFN 361	Hotel Operations	4
HCFN 441	Principles of Tourism	4
HCFN 443	Hospitality Marketing	4

Restaurant, Hotel and Tourism

Major code BS6361

This major is designed for students who have an interest in a career of management and supervision within the hospitality industry. The major, with a built-in business minor, has two tracks from which you might select. The Restaurant track is for students with an interest in restaurants, private clubs, institutional food service organizations, and food or equipment sales companies. The Hotel and Tourism track is directed toward hotels, motels, and the rapidly growing field of tourism management. Additionally, either track provides the necessary competencies to become a meeting and event planner. It is strongly recommended that in addition to the required Field Experience, you have a part-time job in the hospitality industry to be more marketable upon graduation.

Major Requirements

HCFN 110	Intro to Hospitality	4
HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Principles	4
HCFN 275	Training in Hospitality	4
HCFN 330	Food Sanitation and Safety	2
HCFN 333	Principles of Quantity Food Production	2
HCFN 334B	Intro to Food Production: Food Service	3
HCFN 362	Convention and Event Planning	4
HCFN 399D+	Hospitality Field Experience	16
HCFN 400D	Hospitality Seminar	3
HCFN 437	Food Service Cost Control	4
HCFN 438	Mgt. of Maintenance Systems in the Hospital Industry	4
HCFN 440	Beverage Management	4
HCFN 442	Accounting in the Hospitality Industry	4
HCFN 4998	Food Service Practicum	3

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

+Must secure liability insurance (approx. \$38)

Required Related Courses

Business Minor

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4
FIN 310	Foundations of Financial Management	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
OPN 300	Fundamentals of Operations	4
PSY 221 or ECON 381	Statistics for Behavioral Sciences Intro to Economic Statistics	5 or 4

Other Courses

CHEM 121 or CHEM 151	Principles of Chemistry Fundamentals of Chemistry	4 or 5
COMS 103	Fundamentals of Public Speaking	4
CS 120 or MIS 101 or MIS 201B	Computer Science Survey Intro to Microcomputers Intro to Information Analysis & Design	4 or 4 or 4
ECON 103	Principles of Microeconomics	4

Nutrition with Science

Major code BS6363

This program qualifies you to apply for a dietetic internship (supervised practice) to become a registered dietitian and also provides a basis for graduate study and research in nutrition and/or biological sciences. Undergraduates with a strong interest in nutrition, such as those in premedicine, will find the program will satisfy requirements for admission to professional schools.

Major Requirements

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 260A	Lifespan Nutrition: Maternal to Adol.	2
HCFN 2608	Lifespan Nutrition: The Adult and Geriatric Years	1
HCFN 299	Sophomore Practicum—Prof. Awareness	1
HCFN 330	Food Sanitation and Safety	2
HCFN 333	Principles of Quantity Food Production	2
HCFN 334A	Introduction to Food Prod.: Dietetics	2
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A+	Field Experience	5
HCFN 400A	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 424	Medical Nutrition Therapy I	4
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Medical Nutrition Therapy II	4
HCFN 432	Research Design and Methods in Nutrition	3
HCFN 437	Food Service Cost Control	4
HCFN 499A	Nutrition Counseling	2
HCFN 499C	Nutrition Counseling Practicum	1

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

+Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 101	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171, 172, 173	Intro to Zoology	14
BIOS 221, 222 or BIOS 321	Microbes and Humans Plus Lab General Microbiology	6 or 5

BIOS 300	Anatomy and Histology	6
or BIOS 301A and 301B	Human Anatomy and Hum. Anat. Lab	3+2
Note: 301A and 301B must be taken together or BIOS 303		
	Comparative Vertebrate Anatomy	
BIOS 325	General Genetics	5
BIOS 342, 343	Principles of Physiology	6
or BIOS 345, 346	Human Phys. and Lab	or 7
BIOS 445	Physiology of Exercise	4
or PE55 414	Physiology of Exercise	
BIOS 446	Physiology of Exercise Lab	3
or PE55 415	Physiology of Exercise Lab	
BIOS 463	Cell Chemistry	4
or CHEM 489	Basic Biochemistry	
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
CS 120	Computer Science Survey	4
or MIS 101	Intro to Microcomputers	or 3
or MIS 201B	Intro to Information Analysis & Design	or 4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 371	Family and Life Span Development	3
HCRM 250	Consumer in Amer. Society	4
or HCIA 180	Intro to Residential Design and Arch.	or 3
HLTH 230	Medical Terminology	2
HRM 320	Human Resource Management	4
COMS 101	Fund. of Human Comm.	4
or COMS 103	Fund. of Public Speaking	
JOUR 250	Advertising Principles	4
MATH 163A&B	Intro to Calculus	7
or MATH 263A&B	Calculus	or 8
MGT 202	Management	4
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	4

Minor in Basic and Applied Nutrition

Minor code OR6360

This minor gives you the opportunity to strengthen your knowledge of nutrition principles and applications. After completing this minor, you possess basic information concerning nutrition and diet to help others identify reliable nutrition resources in the community. A minimum of 29 to 31 hours plus any necessary prerequisites are required.

Supporting Sciences

(These courses are prerequisites to upper-level HCFN courses. Twelve hours can be applied to the minor.)

BIOS 345	Human Physiology	4
BIOS 463	Cell Chemistry	4
CHEM 121, 122, 123	Principles of Chemistry	12
or CHEM 151, 152, 153	Fund. of Chemistry	or 15
CHEM 301, 302	Organic Chemistry	6

Nutrition Courses

HCFN 128	Intro to Nutrition	4
HCFN 382	Intermediate Nutrition	4
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Medical Nutrition Therapy II	4

Interior Architecture

Major code BS6383

The interior architecture program is accredited by the Foundation for Interior Design Education and Research (FIDER). The program prepares you for a career in design practice in residential and non-residential design, as well as related areas such as lighting, visual display, sales, and professional showroom management.

Students interested in the Interior Architecture program will enter Ohio University with a pre-major code of ND6383 (Pre-Interior Architecture). To be admitted into the program

you must submit and pass a portfolio review that includes all work from:

ART 110	Seeing and Knowing Visual Arts	4
or IART 117	Intro to the Arts	
ART 113	Three-Dimensional Design	4
ART 116	Descriptive Drawing	4
HCIA 180	Intro to Residential Design & Architecture	3
HCIA 181	Color Theory	4
HCIA 299	Professional Practices	2
IT 104	Architectural Drawing I	5
CS 120	Computer Science Survey	4
PSC 105L	Color, Light, and Sound	5

Portfolio reviews take place once each academic year, currently at the end of fall quarter.

Program Standards

To remain active as an interior architecture major, you must meet the following criteria:

1 Earn at least a C (2.0) in each studio course marked with an asterisk (*). Students who receive a grade lower than C (2.0) in these courses will be required to re-take the course.

2 Enroll in an advanced studio course during senior year.

During your senior year you will be required to complete a portfolio of your work.

Transfer and Regional Students

It is imperative for students who transfer or relocate to Ohio University, Athens campus, who declare Interior Architecture as their major to speak with an Interior Architecture faculty member prior to or at the time of transfer or relocation. It is critical that a discussion regarding course selection occur between the student and Interior Architecture faculty member prior to registering for courses.

Students who wish to transfer into the interior architecture major from another institution or regional campus students who are relocating to the Athens campus must submit a portfolio of work for review by the faculty. Students with design work determined by the faculty to be equivalent to that of some or all of the portfolio review required coursework (as listed above) will be reviewed, for the purpose of determining admission to into the major, at the same time as all other portfolio review submissions, currently taking place at the end of the fall quarter. Transfer students admitted into the major must complete all major requirements determined to be missing from the student's academic design experience.

Note: Students admitted to Phase II of the major through the portfolio review are required to provide and maintain a personal computer in the design studio for the use in all studio courses. The minimum requirements for the computer will be outlined by the faculty at the time of the portfolio review each year.

Major Requirements

HCIA 180	Intro to Residential Design and Arch.	3
HCIA 181	Color Theory	4
HCIA 201*	Environmental Design Studio I	4
HCIA 201A	Environmental Design Seminar I	2
HCIA 202*	Environmental Design Studio II	4
HCIA 202A	Environmental Design Seminar II	2
HCIA 279	Rendering and Presentation Tech.	4
HCIA 288	Lighting Fundamentals	3
HCIA 299	Professional Practices	2
HCIA 300	CAD Professional Application	3
HCIA 301*	Interior Architecture Studio I	4
HCIA 301A	Interior Architecture Seminar I	2
HCIA 302*	Interior Architecture Studio II	4
HCIA 302A	Interior Architecture Seminar II	2

HCIA 350	Materials and Construction I	3
HCIA 351	Materials and Construction II	3
HCIA 352	Business Proced. & Contact Documents	3
HCIA 361*	Professional Design and Develop. & Construction Drawing Studio	4
HCIA 361A	Professional Design and Develop. & Construction Drawing Seminar	2
HCIA 400	Senior Seminar—Professional Eval.	1
HCIA 401*	Interior Architecture Studio III	4
HCIA 401A	Interior Architecture Seminar III	2
HCIA 402*	Interior Architecture Studio IV	4
HCIA 402A	Interior Architecture Seminar IV	2
HCIA 470	Research & Program for Interior Arch.	3
HCIA 480	History of Furniture and Int. Design I	3
HCIA 481	History of Furniture and Int. Design II	3
HCIA 482	History of Furniture and Int. Design III	3
HCIA 495*	Thesis Interior Architecture Studio	5
HCID 499	Field Work—Interior Architecture	5-12

Required Related Courses

ART 110 or IART 117	Seeing and Knowing Visual Arts Intro to the Arts	4
ART 113	Three-Dimensional Design	4
ART 116	Descriptive Drawing	4
CS 120	Computer Science Survey	4
HCCF 371	Family and Life Span Development	3
HCFN 128	Intro to Nutrition	4
HCRM 250	Consumer in Amer. Society	4
HCRM 315	Elementary Textiles	4
COMS 103	Fund. of Public Speaking	4
IT 104	Architectural Drawing I	5
JOUR 250	Advertising Principles	4
P SC 105L	Color, Light, and Sound	5
Art History (select a minimum of 12 hours)		
AH 211	History of Art	4
AH 212	History of Art	4
AH 213	History of Art	4
AH 214	History of Art	4
Business (select a minimum of 12 hours)		
ACCT 101	Financial Accounting	4
BUSL 255	Law and Society	4
HCRM 201	Intro to Retailing	4
HCRM 417	Retail Merchandising—Management	4
HCRM 437	Strategic Merchandise Planning	4
MGT 202	Management	4
REAL 101	Real Estate Principles & Practices	4
REAL 103	Real Estate Law	4
REAL 201	Real Estate Appraising I	4
REAL 204	Real Estate Finance	4

Retail Merchandising

The Retail Merchandising program prepares you for retail management, marketing, distribution, and product development positions such as buyer, store or corporate manager, visual merchandiser, manufacturer's sales representative and fashion coordinator.

Students interested in the Retail Merchandising program will enter Ohio University with a pre-major code of ND6380 (Pre-Retail Merchandising). To be admitted into the major, you must apply and be accepted after successful completion of 7 courses and achieving an accumulative g.p.a. of 2.0 or higher.

Admission criteria and processes are:

1. Complete the following courses with a grade of "C" (2.0) or better in each course.

ACCT 101	Financial Accounting	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Microeconomics	4

HCRM 150 or HCIA 181 or ART 113 or ART 116	Design and Illustration Techniques Color Theory Three-Dimensional Studies Descriptive Drawing	4
HCRM 201	Intro to Retailing	4
MATH 113 or MATH 163A or MATH 263A	Algebra Intro to Calculus Calculus	5 4
PSY 221	Statistics of Behavioral Sciences	4

Upon successful completion of the above requirements, you must seek admission to the major.

1 For Pre-Retail Merchandising Majors:

The Retail Merchandising Program Application is available in the School of Human and Consumer Sciences (Grover W324) or from the program coordinator. The completed form and a current DARS report must be submitted by the end of the **second week** of the quarter following completion of the admission requirements to the Retail Merchandising program coordinator in Grover W324.

2 All other majors:

For students in any other major seeking admission into the Retail Merchandising major, the Retail Merchandising Program Application form is available in the School of Human and Consumer Sciences (Grover W324) or from the program coordinator. The completed form, a current DARS report, and the Application for Update Program(s) must be submitted by the **seventh day** of the quarter following completion of the admission requirements to the Retail Merchandising program coordinator in Grover W324.

Upon review and verification of your g.p.a. and course requirements, applicants meeting the requirements will be admitted to the program. Students are advised to make a decision about a major as early as possible in order to apply to the program in a timely manner.

Retail Merchandising**Major code BS6380****Program Standards**

Once admitted to the retail merchandising major, you must meet the following criteria to remain active:

- 1 Maintain and overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Maintain a g.p.a. of 2.0 (C) or better in all courses listed under Major Requirements.
- 3 Complete any courses identified by an asterisk (*) with a grade of C or better.

You must succeed in a required program course by a third time you enroll in the course. If you do not meet this requirement, you will be dropped from the program. Success is a passing grade, or a grade of a C or better in those courses where at least a minimum grade of a C is required.

Major Requirements

HCRM 250	Consumer in Am. Society	4
HCRM 299*	Prof. Development	4
HCRM 315*	Elementary Textiles	4
HCRM 383	Product Development, Eval., and Distr.	4
HCRM 399*	Career Search Strategies	3
HCRM 399A* or HCRM 399B*	Retail Merchandising Field Work Exp. Retail Sales Internship	2 4
HCRM 400	Internship Preparation	1
HCRM 405A	History of Costume	4
HCRM 407	Global Issues in Textiles, Apparel, and Retail Ind.	4
HCRM 417*	Retail Merchandising—Management	4

HCRM 423	Retail Merchandising—Prom Strategy	4
HCRM 437	Strategic Merchandise Planning	4
HCRM 480*	Strategic Retail Policy	4
HCRM 499*	Internship: Retail Merch.	16

Required Related Courses

IART 117	Intro to the Arts	4
CS 120	Computer Science Survey	4
or MIS 101	Intro to Microcomputers	or 3
or MIS 201B	Intro to Information Analysis & Design	or 4
ENG 305J	Technical Writing	4
or ENG 308J	Advanced Composition	
or PRCM 325J	Business Communication	
HCCF 371	Family and Life Span Development	3
COMS 103	Fund of Public Speaking	4
JOUR 250	Advertising Principles	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	4

Select two of the following:

HCCF 160	Intro to Child Development	4
HCFN 128	Intro to Nutrition	4
HCIA 180	Intro to Residential Design and Arch.	3

Approved business electives

Select 12 hours at the 300 or 400 level in ACCT, BA, BUSL, FIN, HRM, MGT, MKT, MIS, OPN, or QBA.

Minor in Retail Merchandising**Minor code OR6380**

CS 120	Computer Science Survey	4
or MIS 101	Intro to Microcomputers	or 3
or MIS 201B	Intro to Information Analysis & Design	or 4
HCRM 201	Intro to Retailing	4
HCRM 383	Product Development, Evaluation and Distribution	4
or HCRM 405A	History of Costume	
or HCRM 423	Retail Merchandising—Promotional Strategy	
HCRM 407	Global Issues in Textiles, Apparel, and Retail Ind.	4
HCRM 417	Retail Merchandising—Management	4
HCRM 437	Strategic Merchandise Planning	4
JOUR 250	Advertising Principles	4

School of Nursing

Esperanza Joyce, Director

Baccalaureate Nursing Program**Major code BS1203**

The School of Nursing offers a RN-to-B.S.N. program designed for licensed RNs who are graduates of state-approved associate's degree or diploma schools of nursing. The purpose is to prepare generalists for the professional practice of nursing and to provide a foundation for graduate study. The program is accredited by the Commission on Collegiate Nursing Education.

The major in nursing includes upper-division coursework in nursing, University General Education Requirements, and upper-division courses outside of nursing. It is possible to complete a minor in another discipline while completing the major in nursing. The School of Nursing offers interactive online (Web-based) courses in the RN to B.S.N. program. This method of course delivery increases the availability of professional development and career mobility for registered nurses.

Admission to and progression through the program include the following steps: (1) you are admitted to Ohio University; (2) after a review of your records of previous coursework, you are informed of the program prerequisites you must

meet and are oriented to the expectations and structure of the program; (3) you are admitted to the nursing major and, if needed, you enroll in courses to complete prerequisites; (4) register for NRSE 300 to begin the required nursing courses; and (5) complete the rest of the required courses for the degree.

Several nursing courses have a clinical component. Clinical experiences occur in a broad range of traditional and non-traditional health care and health maintenance settings. Students, with advising, arrange for clinical experiences close to where they reside. You are responsible for transportation to the clinical experiences.

You must earn a grade of 2.0 (C) or better in each course offered by the School of Nursing (NRSE series). If you do not earn a grade of C, you must retake the course before progressing to the next course in the sequence.

Note: most undergraduate courses offered through the School of Nursing can be retaken up to two times (i.e., initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

Upon completing the RN to B.S.N. program requirements, you will receive the Bachelor of Science in Nursing degree. The requirements consist of 90 quarter hours consisting of lower-division nursing and general education courses and 102 quarter hours of upper-division nursing, general education, and support courses, and an official application for degree conferral.

Program Requirements

- 1 Graduate of state-approved associate's degree or diploma program in nursing.
- 2 Admission to Ohio University.
- 3 Evaluation of official transcripts from lower-division nursing program and all other post-secondary education. The evaluation must be completed by the University and the School of Nursing.
- 4 Completion of specified program prerequisites, before beginning the nursing major sequence of courses.
- 5 Prior to enrolling in clinical NRSE courses, documentation of:
 - a current license to practice as a registered nurse (RN) in Ohio.
 - b individual malpractice insurance.
 - c current immunizations (and/or waiver of the same) including hepatitis B.
 - d results of TB skin test completed within the past year.
 - e current CPR certification.
 - f criminal background check.

Area 1: Prerequisites and General Education

Freshman English composition (ENG 151)
 Chemistry (CHEM 121)
 Human Anatomy and Physiology (BIOS 130 and 131)
 Human Growth and Development (HCCF 160 or PSY 273)
 Microbiology (BIOS 201)
 Nutrition (HCFN 128)
 Psychology (PSY 101)
 Statistics (PSY 120 or PSY 221 or QBA 201 or MATH 251B)
 Sociology (SOC 101)

Area 2: Lower Division Nursing

NURS 110	Foundations of Nursing	4
NURS 111	Foundations of Nursing	4
NURS 120	Assessment of Middle and Older Adult	2
NURS 121	Assessment of Neonate to Young Adult	2
NURS 130	Pharmacology I	1
NURS 131	Pharmacology II	2
NURS 132	Pharmacology III	2
NURS 210	Health Alterations I	7
NURS 211	Health Alterations II	7
NURS 220	Maternal, Newborn Alterations	5
NURS 230	Mental Health Alterations	5

Area 3: Upper Division Nursing

NRSE 300	Transitions in Nursing	5
NRSE 310	Health Appraisal	4
NRSE 325	Health Intervention in Nursing	5
NRSE 330	Family Nursing	4
NRSE 335	Ethical and Legal Issues in Nursing	4
NRSE 340	Community Health Nursing	4
NRSE 405	Research: Critique and Methodology	4
NRSE 415	Restorative Nursing	4
NRSE 416	Management Issues in Nursing	4
NRSE 425	Clinical Applications in Nursing	4
NRSE 445	Strategic Planning in Nursing Care	4
NRSE 455	Excellence in Nursing	4

Area 4: Other Requirements

Tier I— Junior-level advanced composition (select one course with "J" designation)

Tier II—a minimum of 30 hours with at least 4 hours in 4 of 5 categories (some content prerequisites and/or electives you have taken may apply to this requirement)

Completion of any minor, certificate, or additional major program offered at Ohio University or any previously earned baccalaureate degree.

NOTE: You must earn at least 192 quarter hours and complete all requirements to receive the B.S.N.

School Nurse License

If you are licensed as an RN in Ohio, you are eligible to apply for admission to the School Nurse License Program. You can complete the program under one of three plans:

- 1 If you are an RN with a B.S.N. degree, take only the additional courses required to meet the Ohio Department of Education's licensure requirements.
- 2 If you are an RN who wishes to complete the B.S.N. and the School Nurse License simultaneously, follow the B.S.N. program of study and use the required School Nurse License courses as part of that degree.
- 3 If you are an RN who seeks to complete a B.S. degree not in nursing, consult with both your major advisor and the School Nurse License advisor to develop a program.

If you do not have a B.S. degree in some area, you will have to earn one. This involves meeting University General Education Requirements and graduation requirements in addition to the major requirements and School Nurse Licensure requirements. Your file will be reviewed, and credit transferred from other accredited institutions will be used to meet requirements wherever possible. Graduates of diploma programs in nursing may earn 36 quarter hours of credit for lower-division nursing upon completion of specified ACT-PEP exams.

If you hold a B.S.N., you will likely have met the nursing course requirements (NRSE) listed below. If you earned your B.S.N. at another university, course descriptions from previous schools may be required to determine equivalent coursework.

Required Courses

EDCS 400	School, Society, and the Prof. Educator	4
HCCF 360	Human Sexualities	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 320	Strategies for Communicating Health Information	4
HLTH 345	School Health	4
NRSE 300	Transitions in Nursing	5
NRSE 305	Intro to School Nursing	4
NRSE 310	Health Appraisal	4
NRSE 325	Health Intervention in Nursing	5
NRSE 330	Family Nursing	4
NRSE 340	Community Health Nursing	4

NRSE 461A	School Nurse Seminar: Early Childhood	1
NRSE 461C	School Nurse Practice: Early Childhood	4
NRSE 462A	School Nurse Seminar: Middle Childhood	1
NRSE 462C	School Nurse Practice: Middle Childhood	4
NRSE 463A	School Nurse Seminar: Late Childhood	1
NRSE 463C	School Nurse Practice: Late Childhood	4
PSY 233 or PSY 332	Psychology of Personality Abnormal Psychology	4
PSY 273	Child and Adolescent Psychology	4
PSY 275	Educational Psychology	4

School of Physical Therapy**Averell Overby, Director**

The School of Physical Therapy offers an entry-level doctoral program in physical therapy leading to a Doctor of Physical Therapy (D.P.T.) degree. The program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE). The professional program begins in June and extends over a three-calendar-year period. A baccalaureate degree, completion of prerequisites, and the Graduate Record Exam (GRE) are required for admission to the program.

The problem-solving curriculum is designed to prepare competent health care professionals who will be able to employ critical decision-making skills for optimal patient care. Evidence-based practice is stressed throughout the curriculum as students critically analyze current literature related to physical therapy. Clinical experience is integrated with the didactic and laboratory components throughout the program of study.

Eligibility to Apply

Students should consult the Web page (<http://www.ohio.edu/phytherapy/>) for the most up-to-date information.

You must meet the following requirements to be eligible to apply for June admission to the School of Physical Therapy's graduate program:

- 1 earned a minimum overall grade-point average (g.p.a.) of 3.0 on a 4.0 scale.
- 2 completed at least 8 of the 12 Life and Physical Sciences prerequisite courses by the end of the fall quarter in which you apply. You must complete the remainder of the math, behavioral, and life/physical science prerequisites before beginning study in the program.
- 3 earned bachelor's degree from an accredited college or university.
- 4 taken the GRE.
- 5 have acceptable letters of reference from two (2) physical therapists and one (1) educator.

Minimum Prerequisite Course Requirements***General**

PSY 221	Statistics for Beh. Sciences	5
PSY 273	Child and Adolescent Psy.	4

Math

MATH 163A	Calculus	4
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Life and Physical Sciences**

BIOS 170	Intro. to Zoology	5
BIOS 171	Intro. to Zoology	5
BIOS 301A and 301B or BIOS 303	Human Anatomy and Hum. Anatomy Lab3+2 Comp. Vertebrate Anatomy	6
BIOS 345, 346	Human Physiology	7

BIOS 445, 446 or PESS 414, 415	Exercise Physiology Exercise Physiology	7
CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 or 15
PHYS 201, 202, 203	Physics	15
TOTAL	69-73 quarter hours	

*All prerequisite courses must be passed with a grade of C or better.

**All life and physical science courses must include a laboratory component. You must have a total of 20 quarter hours (14 semester hours) at or above the junior (300) level in the anatomy, physiology, and exercise physiology lecture and lab courses.

Program of Study

The Physical Therapy program is at the graduate level and is described in the Ohio University *Graduate Catalog*.

School of Recreation and Sport Sciences

Ming Li, Director

The School of Recreation and Sport Sciences offers diverse academic programs in athletic training education, exercise physiology, physical education, recreation studies, and sport management. In addition to these majors, a minor in recreation is also available. Committed to excellence in undergraduate education, most programs in the school have been accredited or approved by national accrediting agencies or organizations, such as National Council for Accreditation of Teacher Education (NCATE), Commission on Accreditation of Allied Health Education Programs (CAAHEP), National Recreation and Parks Association (NRPA), and Sport Management Program Review Council (SMPRC). The school faculty are committed to promoting the pursuit of an active and healthy lifestyle.

For information about the programs, go to our Web site at <http://www.ohio.edu/rsps/index.htm>.

Note: Courses offered through the School of Recreation and Sport Sciences vary in the number of times they can be retaken (i.e., initial registration plus retake). If you need to know the limit for a course, contact the college's Student Services office. Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree. While no limit has been set for repeats of PED courses, individual majors, schools, departments, and colleges may limit the number of such hours that can count toward graduation.

Athletic Training Education

All students interested in Athletic Training Education (ATE) must be admitted into Ohio University with a designated major code of ND8142 (Pre-Athletic Training). In order to continue in ATE beyond the first year, you must apply to and be accepted into the program. Transfer students must complete the transfer student application found on the Athletic Training Web site in addition to the regular application for admission to Ohio University. All transfer student applications will be evaluated on a case-by-case basis by the ATE program director.

Admission criteria:

1. Students must complete the freshman athletic training courses that include: RSAT 155, 160, 165, 180A, 180B, 180C with a 3.0 average or higher.

2. Students must successfully complete BIOS 103 OR BIOS 170 and 171 by the end of their first year so they would be eligible to complete BIOS 301A and 301B during fall (BIOS 170, 171 pre-req) OR BIOS 203, 204 (BIOS 103 pre-req) during winter (BIOS 203 and 204) of their sophomore year.
3. Students must earn a minimum of 45 credit hours by the end of spring quarter of application year.
4. Students must document at least 60 hours of athletic training observation at any athletic training site (must have verification from ATC at site).
5. Students must complete and return the Athletic Training Education Program application to the Undergraduate Athletic Training Education Program Director, Ohio University, Grover Center E188, Athens, OH 45701 on or before May 1st. Application for the Athletic Training Education Program includes the completion of three recommendations. The application may be found on the athletic training Web site at <http://www.ohio.edu/rsps/ohioated/application.htm> or from the undergraduate athletic training education director at the above address.
6. Students must complete an on-campus interview with the Athletic Training Education Selection Committee. Interviews are conducted after May 1st. Students who meet selection criteria are invited to interview.
7. Students must have documentation of hepatitis B immunization, TB skin test, and a physical exam at the time of application.
8. Students must meet the Americans with Disabilities Act (ADA) technical standards for admission found in the Athletic Training Education Program Policies and Procedures document which is distributed in RSAT 155 or can be found on our Web site listed above.

Admission Process:

Students accepted into the Athletic Training Education Program (ATEP) will receive a certified letter of acceptance and will be given two (2) weeks in which to accept or decline the invitation in writing. Any position declined, or for which we do not receive notice of acceptance, will be offered to the next student on the waiting list until the class is filled. If you are selected for the program, you are required to complete a minimum of 800 hours of clinical experience between your sophomore and senior years. The ATEP's policies and procedures manual outlines the application process for pre-athletic training and transfer students; policies and procedures for progression, retention, and completion of the didactic and clinical components; and additional expenses students may encounter. This manual can be found at <http://www.ohio.edu/rsps/ohioated/undergraduate.htm>. You are awarded the Bachelor of Science in Athletic Training upon completion of the program and after official application for degree conferral.

When all positions are filled, those who were not accepted into the program will be notified that they still may re-apply the following year. Decisions for acceptance will be finalized on or before July 1st.

Athletic Training

Major code BS8117

Athletic Training Core Courses

Select one of the following science options:

Option One:

BIOS 103	Human Biology	5
BIOS 203	Human Biology II: Essentials of Anatomy and Physiology	4
BIOS 204	Human Biology Lab II: Functional Anat.	1

Option Two:

BIOS 170	Introduction to Zoology	5
BIOS 171	Introduction to Zoology	5
BIOS 301A	Human Anatomy	3
BIOS 301B	Human Anatomy Lab	2
BIOS 345	Human Physiology	4
HCFN 128	Intro to Nutrition	4
HLTH 202	Intro to Health and Lifestyle Choices	4
PESS 302 or BIOS 352	Biomechanics Biomechanics	4
PESS 348 or PESS 249	Exercise Testing and Prescription Exercise Testing and Prescription	5
PESS 414, 415 or BIOS 445, 446	Physiology of Exercise and Lab Physiology of Exercise and Lab	7
PESS 416	Resistance Training	4
PESS 448 or PESS 461	Exercise Prescription II Advanced Topics in Exercise Performance	5
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 or 5
RSAT 155	Intro to Athletic Training Education	4
RSAT 160	Practical Aspects of Athletic Training	2
RSAT 165	Athletic Training Injuries Prevention and Management	4
RSAT 180A	Practical Apps in Athletic Training I	1
RSAT 180B	Practical Apps in Athletic Training II	1
RSAT 180C	Practical Apps in Athletic Training III	1
RSAT 215	Emergency Response and Care in Athletic Training	5
RSAT 220	Orthopedic Evaluation and Assessment of Athletic Injuries I	5
RSAT 225	Orthopedic Evaluation and Assessment of Athletic Injuries II	5
RSAT 280A	Clinical Applications in Athletic Training I	1
RSAT 280B	Clinical Applications in Athletic Training II	1
RSAT 280C	Clinical Apps in Athletic Training III	1
RSAT 305	Interdisciplinary Aspects of Sports Medicine	2
RSAT 308	Pharmacology for Athletic Training	3
RSAT 310	Therapeutic Exercise	5
RSAT 315	Therapeutic Modalities	5
RSAT 360	Orthopedic Appliances	4
RSAT 380A	Clinical Apps of Athletic Training IV	1
RSAT 380B	Clinical Apps in Athletic Training V	1
RSAT 380C	Clinical Apps in Athletic Training VI	1
RSAT 381	Evidence-Based Practice in Ath. Training	4
RSAT 425	Athletic Training Senior Seminar	5
RSAT 490	Clinical Internship	12

Required Related Course

CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 or 15
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Even if your mathematics placement exam result is MATH 263 (which means that you demonstrated quantitative skills sufficient to meet the Tier I requirement), you must complete one of the following:

MATH 113	Algebra	5
MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Analytic Geometry and Calculus	4

Physical Education and Sport Sciences

Physical Education and Sport Sciences includes three major areas of specialization: physical education with an emphasis on teaching PreK-Grade 12, exercise physiology, and sport management.

In order to be granted a degree in either physical education or sport sciences, you must be a declared major for at least one academic year (three quarters) immediately before

graduation. No more than three quarter hours of credit in each of the following courses will count toward the 192 hours needed for graduation:

BIOS 392 and/or BIOS 492	Topics in Zoology
MUS 251A	Marching Band
PED 123	Conditioning and Weight Training
PESS 418A	Instructional Experience

Physical Education

A major in physical education prepares you to teach physical education from prekindergarten through grade twelve (PreK-12 teaching license). All students interested in physical education will enter Ohio University into a pre-major code of ND8106 (Pre-Physical Education). To be admitted into the major, you must apply to and be accepted after successful completion of nine courses and maintaining an accumulative g.p.a. of 2.75 or higher.

Pre-Physical Education Requirements

1. Complete the following courses with a grade of "C" (2.0) or better in each course:

BIOL 101 or BIOS 103	Principles of Biology Human Biology	5
ENG 151 or ENG 152 or ENG 153	Writing and Rhetoric I Writing and Reading Writing and Reading: Special Topics	5
HLTH 202	Intro to Health & Lifestyle Choices	4
COMS 103	Fundamentals of Public Speaking	4
MATH 109 or higher	Consumer Mathematics	4
PESS 126	Skill and Fitness for Physical Education Teachers	4
PESS 202	Intro to Teaching Physical Education	4
PESS 227	First Aid: Work Place Training	3
PSY 101	General Psychology	5

Total Hours 38-39

2. Achieve and maintain an accumulative g.p.a. of 2.75 or higher.

Upon successful completion of the above requirements, you must seek admission to the major.

1 For Pre-Physical Education Majors:

The Physical Education Program Application is available in the School of Recreation and Sport Sciences (Grover E160) or from the Physical Education program coordinator. The completed form and a current DARS report must be submitted by the end of the **second week** of the quarter following completion of the admission requirements to the Physical Education program coordinator.

2 All other majors:

For students in any other major seeking admission into the Physical Education major within the College of Health and Human Services, the Physical Education Program Application form is available in the School of Recreation and Sport Sciences (Grover E160) or from the Physical Education program coordinator. The completed form, a current DARS report, and the Application for Update Program(s) must be submitted by the **seventh day** of the quarter following completion of the admission requirements to the Physical Education program coordinator.

Upon review and verification of your g.p.a. and course requirements, applicants meeting the requirements will be admitted to the program. Students are advised to make a decision about a major as early as possible in order to apply to the program in a timely manner.

Once admitted to the major, you must meet the criteria for selective admission to and retention in teacher education established by the College of Education (see "Admission to Professional Education" in the College of Education section), including a 2.75 in your major, in required professional education courses, and overall. To graduate and receive your teaching license in physical education, you must complete all College of Education requirements. Upon completion of the program and passing the Praxis II exam, you are eligible for a provisional teaching license in physical education. You will be granted a Bachelor of Science in Physical Education upon official application for degree conferral and successful completion of all requirements.

Required General Education Courses

Ohio requirements for teacher licensure state that you must complete a general studies program that includes the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University's General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier II courses required in this major are:

BIOS 103	Human Biology I	5
PSY 101	General Psychology	5

In addition, you must complete COMS 103 Fundamentals of Public Speaking before you can apply for admission into Professional Education in the College of Education.

Physical Education

Major code BS8106

Physical Education/Teacher Education Core

You must complete the following courses with no grade below a C (2.0):

PESS 205	Fund. of Movement, Rhythms and Dance	3
PESS 240A	Foundations of Sport and Games in Physical Education I	4
PESS 240B	Foundations of Sport and Games in Physical Education II	4
PESS 310	Principles, Theories and Methods of Teaching Early Childhood Physical Ed	6
PESS 330	Principles, Theories and Methods of Teaching Middle Childhood Phys. Ed	6
PESS 370	Principles, Theories and Methods of Teaching Adolescent and Young Adult Physical Education	6
REC 291	Outdoor Pursuits	3

Physical Education Required Courses

You must complete the following courses with no grade below a C (2.0):

BIOS 203	Human Biology II: Essentials of Anatomy and Physiology	4
BIOS 204	Human Biology Lab II: Functional Anatomy	1
HCCF 160	Intro to Child Development	4
PESS 204	History and Principles of Physical Ed.	4
PESS 212	Intro to Coaching	3
PESS 302	Biomechanics	4
PESS 333	Adapted Physical Educ.	4
PESS 345	Foundations of Exer. Physiology	4
PESS 405	Motor Learning	4
PESS 409	Tests and Measurements	4

You must earn at least a C (2.0) or better in one of the following aquatic courses:

PESS 104	Intermediate Swimming	2
PESS 218	Lifeguard Training	2
PESS 220	Water Safety Instruction	4

Required Professional Education Courses

You must complete the following courses with a 2.75 g.p.a. and no grade below a C (2.0):

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Dev.	6
EDTE 201	Characteristics of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Typical and Exceptional Student Development	2
EDCT 203	Technological Applications in Education	4
EDCS 301	Educ. and Cultural Diversity	3
EDTE 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400	School, Society, and the Professional Ed.	4
EDSE 350	Sec. School Planning and Instruction	4
EDSE 351	Instructional Process and Curriculum	5
EDPL 461, 463	Student Teaching	13
EDPL 465	Student Teaching Seminar	3

Exercise Physiology

The Exercise Physiology major prepares students for the application of exercise physiology in health and fitness, clinical diagnostics, rehabilitation, and performance settings. This program also prepares students for graduate programs in exercise physiology and health related disciplines. Students often pursue certification through the American College of Sports Medicine and the National Strength and Conditioning Association to enhance employment opportunities. The program curriculum meets most admission requirements for Physical Therapy and is an integral part of the Athletic Training Education curriculum.

This degree includes a solid background in basic sciences to allow the student to develop an understanding of how the body responds and adapts to exercise stimuli. The student then develops the applied skills to evaluate physical fitness, and to design and administer population appropriate exercise prescriptions.

Students interested in the Exercise Physiology program will enter Ohio University with a pre-major code of ND8122 (Pre-Exercise Physiology). To be admitted into the major, you must apply and be accepted after successful completion of the following courses and achieving an accumulative g.p.a. of 2.0 or higher.

Admission criteria and processes are:

1. Complete the following courses with a grade of "C" (2.0) or better in each course:

BIOS 170 & 171	Introduction to Zoology	10
CHEM 121-123 or CHEM 151-153	Principles of Chemistry Fundamentals of Chemistry	12 15
MATH 163A or MATH 263A or MATH 266A	Introduction to Calculus Calculus Calculus with Application to Biology	4
PESS 125	Human Movement and Fitness Perspective	4
and PESS 203 or PESS 149	Introduction to Exercise Physiology Introduction to Exercise Science	3 4
PESS 348 or PESS 248	Exercise Testing and Prescription Exercise Testing and Prescription	5
PHYS 201	Introduction to Physics	5

Upon successful completion of the above requirements, you must seek admission to the major.

- 1 For Pre-Exercise Physiology Majors:

The Exercise Physiology Program Application is available in the School of Recreation and Sport Sciences (Grover E160) or from the program coordinator. The completed form and a current DARS report must be submitted by the end of the **second week** of the quarter following completion of the admission requirements to the Exercise Physiology program coordinator.

2 All other majors:

For students in any other major seeking admission into the Exercise Physiology major, the Exercise Physiology Program Application form is available in the School of Recreation and Sport Sciences (Grover E160) or from the program coordinator. The completed form, a current DARS report, and the Application for Update Program(s) must be submitted by the **seventh day** of the quarter following completion of the admission requirements to the Exercise Physiology program coordinator.

Upon review and verification of your g.p.a. and course requirements, applicants meeting the requirements will be admitted to the program. Students are advised to make a decision about a major as early as possible in order to apply to the program in a timely manner.

Exercise Physiology**Major code BS8122****Exercise Physiology Major Core**

The courses in the Core must be completed with a "C" or better grade and cannot be taken more than 3 times (initial registration, plus 2 retakes)

BIOS 301A and 301B	Human Anatomy and Hum. Anat. Lab	3+2
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
PESS 261	Practicum in Sports Sciences	5
(note: may take it for 1 hr each for a total of 5 hrs)		
PESS 302 or BIOS 352	Biomechanics	4
PESS 322	Applied Kinesiology	4
PESS 405	Motor Learning	4
PESS 414	Physiology of Exercise	4
PESS 415	Physiology of Exercise Lab	3
PESS 416	Resistance Training	4
PESS 448 or PESS 449A	Exercise Prescription II Cardiovascular Assessments in Exercise Physiology	5
and PESS 449B	Exercise Prescription for Special Populations	4

Select one of the following:

PESS 460	Special Topics in Exercise Physiology	4
PESS 461	Advanced Topics in Exercise Performance	4

Required Related Courses

ANTH 101	Introduction to Cultural Anthropology	5
or SOC 101	Introduction to Sociology	4
HCFN 128	Introduction to Nutrition	4
HLTH 202	Introduction to Health and Lifestyle Choices	4
PESS 227	First Aid: Work Place Training	3
PESS 228	Cardiopulmonary Resuscitation	3
PSY 101	General Psychology	5
PSY 221	Statistics for Behavioral Sciences	5
PHYS 202	Introduction to Physics	5

Select one of the following:

HLTH 217	Introduction to Health Care Organizations	4
PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PESS 327	First Aid: Workplace Training Instructor	3
PESS 328	CPR Instructor	3
PESS 421	Principles of Aging and Physical Activity	4
PESS 493	Research Dynamics: Planning, Participation, and Actualization of the Research Process	1-6

Select one of the following:

PSY 233	Psychology of Personality	4
PSY 312	Physiological Psychology	4
PSY 327	Human Psychophysiology	4
PSY 332	Abnormal Psychology	4

Skill Development

You must complete 6 hours with a minimum of 2 hours required in each of the three categories.

Aquatics (2 hours minimum)

PESS 103	Beginning Swimming	2
PESS 104	Intermediate Swimming	2
PESS 110	Aqua Aerobics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instructor	3

Sport Activities (2 hours minimum)

PESS 223	Track and Field	2
PESS 224B	Wrestling	2
PESS 260A	Flag Football	2
PESS 260B	Team Handball	2
PESS 262A	Field Hockey	2
PESS 262B	Soccer	2
PESS 264B	Lacrosse	2

Lifetime Activities (2 hours minimum)

PESS 107	Modern Dance	2
PESS 115	Rhythmics	2
PESS 116	Social Forms of Dance	2
PESS 117	Folk and Square Dance	2
PESS 141A	Archery	2
PESS 1418	Golf	2
PESS 221A	Tennis	2
PESS 221B	Badminton	2
PESS 224A	Racquetball	2
PESS 263A	Basketball	2
PESS 2638	Volleyball	2
PESS 264A	Softball	2

Sport Management

The Sport Management major, designed to meet the needs of the sport industry, provides the student with academic preparation and practical training that are required to be successful in various careers in the sport industry. These careers include, but are not limited to sport sales or ticket operations; collegiate athletic administration; administration in professional sports; sports agencies; sport promotion and marketing; sports information; sports media; customer and community relations; facility and event management; and sport or corporate sponsorship.

Professional preparation for the field of sport management consists of foundation courses in management and courses that apply management principles to the various segments of the sport enterprise. Students are strongly encouraged to complete SASM 490, Internship in Sport Management, and/or the Sales Certificate as well. A business minor is incorporated within the Sport Management curriculum. Students must declare the minor upon entering the major. Upon successful completion of all requirements and official application for degree conferral, you will be awarded the Bachelor of Science in Sport Sciences.

Students interested in the Sport Management program will enter Ohio University with a pre-major code of ND8123 (Pre-Sport Management). To be admitted into the major, you must apply and be accepted after successful completion of seven courses and achieving an accumulative g.p.a. of 2.5 or higher.

Admission processes and criteria are:

1. Complete the following courses with a grade of "C" (2.0) or better in each course:

ACCT 101	Financial Accounting	4
ECON 103	Principles of Microeconomics	4

ENG 151 or ENG 152 or ENG 153	Writing and Rhetoric I Writing and Reading Writing and Reading: Special Topics	5
COMS 101 or COMS 103	Fundamentals of Human Comm Fundamentals of Public Speaking	4
MATH 163A	Intro to Calculus	4
SASM 201	Intro to the Sport Industry	3
SASM 225	History of the Sport Industry	4
Total Hours		28

2. Achieve and maintain an accumulative g.p.a. of 2.5 or higher.

Upon successful completion of the above requirements, you must seek admission to the major:

1. For Pre-Sport Management Majors

The Sport Management Program Application form is available from your faculty advisor. The completed form and a current DARS report must be submitted by the end of the second week of the quarter following completion of the admission requirements to the Sport Management coordinator.

2. All Other Majors

For students in any other major seeking admission into the Sport Management major, the Sport Management Program Application form is available from the Sport Management coordinator. The completed form and a current DARS report must be returned to the coordinator by the seventh day of the quarter, following completion of the admission requirements.

Upon review and verification of your g.p.a. and course requirements, applicants meeting the requirements will be admitted into the program. Students are advised to make a decision about a major as early as possible in order to apply to the program in a timely manner.

Sport Management Core Requirements

Business and Economics

ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4
ECON 104	Principles of Macroeconomics	4
FIN 310	Foundations of Financial Management	4
or FIN 325	Foundations of Finance	
HRM 320	Human Resources Management	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
OPN 300 or OPN 310	Fundamentals of Operations Principles of Operation	4

Sport Management

BUSL 465	Law of Sports	4
ECON 318	Economics of Sports	4
SASM 290	Practicum in Sport Management	1-5
SASM 376	Athletic Facility Planning and Mgt	4
SASM 391	Risk Management	4
SASM 401	Sport Marketing	4
SASM 412	Sports Governance and Ethics	4
SASM 425	Financial Issues in Sport	4
SASM 435	Sport Promotion and Sales Management	4
SOC 233	Sociology of Sport	4

Required Related Courses

PSY 101	General Psychology	5
PSY 221 or QBA 201	Statistics for the Behavior Sciences Introduction to Business Statistics	5 4
SOC 101	Introduction to Sociology	4
SASM 490 or	Internship in Sport Management 16 hours of 300 or 400 level from ACCT, BUSL (not 465), COMS, ECON (not 318), ENG, FIN (not 310 or 325), JOUR, HRM (not 320), MKT, OPN (not 300 or 310), PESS, and REC.	16

Recreation Studies

The coursework is designed to prepare you in the recreation studies professional program and allow you to concentrate in adventure recreation, outdoor education and camping or recreation management. After successfully completing the requirements and officially applying for degree conferral, you will be awarded the Bachelor of Science in Recreation Studies.

The curriculum prepares you to assume positions in city recreation and park departments; state and federal government agencies; youth service agencies; industrial agencies; religious organizations; camping; commercial, institutional, or collegiate recreation.

Adventure Recreation

Major code BS8113

This option focuses upon planning, conducting, and administering high adventure and wilderness skills programs. You may qualify for positions with various wilderness and survival schools, outdoor leadership programs, expedition outfitters, and commercial enterprises in high adventure activities. Career opportunities are also increasing in programs involving juvenile offenders in both public and private agencies.

Health/Sport Sciences/Recreation

(Select 20 hours)

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athletic Officiating in Football	3
PESS 340	Athletic Officiating in Basketball	3
PESS 341	Athletic Officiating in Baseball	3
REC 290	Recreational Sport Officiating	3
REC 381	Management of Recreational Sports	4
SASM 391	Risk Management	4

Required Professional Recreation Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Recreation for Individ. with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Experience in Recreation	3
REC 405	Internship Seminar	1
REC 440	Internship	16
REC 445	Research and Evaluation Methods in Rec and Leisure	4
REC 449	Recreation Administration	4
REC 460	Adv. Concepts and Issues in Leisure	4

Recreation Tool Courses

(Select 16 hrs)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 5
REC 236	Field Experience in Recreation	1-3
REC 314*	Camping and Trip Management	5
REC 320	Challenge Course Theory and Practice	3

Or select any course from ART, IART 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 4 PED courses.

Professional Courses

(Select a minimum of 35 hours from:)

PBIO 225	Flowers	4
PBIO 303	Medicinal Plants of Ohio	3
GEOL 130	Geology of National Parks	4
GEOL 215	Environ. Geology	4
GEOL 231	Water and Pollution	4
GEOL 330	Principles of Geomorphology	5
GEOL 434	Geological Apps of Remote Sensing	4
REC 101*	Orienteering	1
REC 102*	Advanced Orienteering	1
REC 103	Survival I	1
REC 105	Whitewater Rafting	1
REC 106	Hunting	1
REC 107	Trap Shooting	1
REC 108	Technical Climbing	1
REC 111	Winter Activities	1
REC 112	Backpacking	1
REC 113	Canoeing	1
REC 114	Kayaking	1
REC 115	Ropes	1
REC 116	Rescue Techniques	1
REC 291	Outdoor Pursuits	3
REC 390*	Wilderness Survival	3
REC 475*	Adventure Programming	3
SOC 201	Contemporary Social Problems	4
SOC 210	Intro to Social Psychology	4
SOC 260	American Criminal Justice	4
SOC 261	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 366	Penology	4
SW 101	Intro to Social Welfare and Social Work	3

*Required

Outdoor Education and Camping**Major code BS8108**

This option focuses upon planning, conducting, and administering outdoor recreation programs, with special emphasis available for school-oriented programs and resident camping. You may qualify for positions as an interpretive naturalist, outdoor education resource person, camp director, visitor information center director, or supervisor of outdoor recreation programs in federal, state, or local agencies.

Health/Sport Sciences/Recreation

(Select 20 hours)

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athletic Officiating in Football	3
PESS 340	Athletic Officiating in Basketball	3
PESS 341	Athletic Officiating in Baseball	3
REC 290	Recreational Sport Officiating	3
REC 381	Management of Recreational Sports	4
SASM 391	Risk Management	4

Required Professional Recreation Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Exp. in Recreation	3
REC 405	Internship Seminar	1
REC 440	Internship	16
REC 445	Research and Evaluation Methods in Rec. and Leisure	4
REC 449	Recreation Administration	4
REC 460	Advanced Concepts and Issues in Leisure	4

Recreation Tool Courses

(Select 16 hours)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 4
REC 236	Field Exp. in Recreation	1-3
REC 314*	Camping and Trip Management	5
REC 320	Challenge Course Theory and Practice	3

Or select any course from ART, IART 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 4 courses from any REC 100-level course (except REC 101, 102, and 103) or PED course.

Professional Courses

(Select a minimum of 35 hours from:)

ASTR 100	Survey of Astronomy	4
BIOS 170	Intro to Zoology	5
BIOS 435	Entomology	6
BIOS 475 or PBIO 425	Sociobiology Plant Ecology	3 or 5
GEOG 101 or GEOL 215	Elements of Physical Geography Environ. Geology	5 or 4
GEOG 201	Environmental Geography	4
GEOG 260	Maps	4
GEOL 101	Intro to Geology	5
GEOL 120	The Mobile Earth	4
GEOL 130	Geology of National Parks	4
GEOL 211	Intro to Oceanography	4
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4
GEOL 312	Earth Materials and Resources	5
GEOL 315	Mineralogy	5
GEOL 320	Rocks	3
PBIO 102	Plant Biology	5
PBIO 103	Plants and People	4
PBIO 109	Americans and their Forests: Ecology, Conservation and Policy	4
PBIO 209	Plant Ecology	4
PBIO 225	Flowers	4
PBIO 247	Vegetation of North America	4
PBIO 303	Medicinal Plants of Ohio	3
PBIO 311	Biology and Human Affairs	4
PBIO 426	Physiological Plant Ecology	5
PSY 275	Educational Psychology	4
REC 101	Orienteering	1
REC 102	Advanced Orienteering	1
REC 103 or REC 390	Survival I Wilderness Survival	1 or 3

*Required

Recreation Management

Major code BS8109

This option focuses upon the administration of recreation programs and qualifies you for positions with public recreation, voluntary agencies, resident institutions, and in camp or college settings.

Health/Sport Sciences/Recreation

(Select 20 hours)

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athletic Officiating in Football	3
PESS 340	Athletic Officiating in Basketball	3
PESS 341	Athletic Officiating in Baseball	3
REC 290*	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4
SASM 391	Risk Management	4

Required Professional Recreation Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Experience in Recreation	3
REC 405	Internship Seminar	1
REC 440	Internship	16
REC 445	Research and Evaluation Methods in Rec. and Leisure	4
REC 449	Recreation Administration	4
REC 460	Advanced Concepts and Issues in Leisure	4

Recreation Tool Courses

(Select 16 hours)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 5
REC 236	Field Experience in Recreation	1-3
REC 314	Camping and Trip Management	5
REC 320	Challenge Course Theory and Practice	3

or select any course from ART, IART 150, DANC, MUS, THAR

Physical Education or Recreation Activities

Select 4 courses from any REC 100-level course or PED course.

Professional Courses

(Select a minimum of 35 hours)

ACCT 101	Financial Accounting	4
BUSL 255	Law and Society	4
BUSL 465	Law of Sports	4
CS 120 or MIS 101	Computer Science Survey Intro to Microcomputers	4 or 3
CS 220	Intro to Computing	5
ECON 103	Principles of Microeconomics	4
HRM 320	Human Resource Management	4
HRM 425	Labor Relations	4
HRM 460	Human Resource Policy, Planning, and Info. Sys.	4
JOUR 105 or TCOM 105	Intro to Mass Communication Intro to Mass Communication	4
JOUR 221	Graphics of Communication	5

JOUR 231	News Writing	4
JOUR 250	Principles of Advertising	4
JOUR 471	Public Relations Principles	4
MGT 202	Management	4
MGT 340	Org. Behavior— Micro Perspective	4
MGT 428	Nonindustrial Labor Relations	4
MKT 202	Marketing Principles	4
REC 313	Fitness and Wellness Prog in Campus Rec.	3
REC 316	Social Programming and Special Events in Campus Recreation	3
REC 435	Management of Campus Rec. Facilities	3
REC 450	Issues in Campus Rec.	3
REC 455	Administration of Aquatic Facilities	3

*Required

Minor in Recreation

Minor code OR8109

To earn a minor in recreation, a minimum of 35 hours of recreation coursework must be completed. The following courses, which total 20 hours, are required. The remaining courses (minimum of 15 hours) must be completed at the REC 200-level and above. To apply REC 418 courses to the minor requires approval of the Recreation Studies Coordinator prior to registration in these courses.

Required Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4

Honors Tutorial College

<http://www.ohio.edu/honors/>

35 Park Place

C. Ann Fidler
Dean

Jan Hodson
Assistant Dean

The Honors Tutorial College offers 26 challenging programs of study that provide a unique undergraduate educational experience to a select number of qualified students.

Students admitted to the College undertake a substantial portion of the core curriculum in their respective disciplines through a series of tutorials. A tutorial consists of a full-time faculty member meeting with students either singly or in small seminars. In pursuing this method of instruction the College draws upon the rich educational traditions of British universities such as Cambridge and Oxford. Although other colleges and universities have adopted some aspects of the tutorial model, Ohio University remains the only institution in the United States with a degree-granting college incorporating all the essential features of a tutorial-based education. The success of the College's approach to undergraduate education is evident in its distinguished 33-year history and the impressive achievements of its alumni.

Goals, Resources, and Expectations of the College

Through flexibility, mentoring, and abundant academic resources, the Honors Tutorial College aims to give high-ability students every opportunity to further their intellectual development. College requirements are kept to a minimum in order to allow students to explore a range of disciplines, engage in substantial creative and/or research work, acquire a high degree of proficiency in a particular subject matter, and participate in meaningful extracurricular activities. Tutorials allow individuals to work closely with accomplished scholars who take particular pride in helping Honors Tutorial College students fulfill their current and future ambitions. This special combination of freedom and guidance, which is one of the hallmarks of the College, is enhanced by the number of exclusive academic resources made available to its students. These include priority registration, special residence hall availability, enhanced library privileges, research support, eligibility to undertake graduate work, unique education abroad opportunities, and scholarship availability.

A tutorial-based curriculum requires highly developed academic abilities, but it also necessitates motivation, maturity, focus, energy, and a combination of self-confidence and humility. To succeed in the Honors Tutorial College, a student must recognize that she or he bears the responsibility for understanding each week's tutorial material. All tutorials are dialogues—

exchanges of thoughts, questions, and possibilities—not lectures. There are no back row seats in a tutorial. At every tutorial, students are called upon to participate in an intellectual exchange in which quality is measured by thoughtful mastery of the subject under consideration.

In addition to being comfortable with the expectations of the tutorial mode of instruction, students must also consider other characteristics of the College. These include participation of all Honors Tutorial College freshmen in a seminar held in fall quarter and an expectation that membership in the College brings with it community service obligations. The seminar and community service work play a critical role in establishing camaraderie between students and maintaining a vibrant, active community of young scholars.

Honors Tutorial College Programs of Study

Through formal arrangements with various academic departments in the University, the Honors Tutorial College offers majors in:

Anthropology
Astrophysics
Biological Sciences
Business
Chemistry
Classics
Communication Studies
Computer Science
Dance
Engineering Physics

English
 Environmental and Plant Biology
 Film
 French
 Hearing, Speech and Language Sciences
 History
 Journalism
 Mathematics
 Philosophy
 Physics
 Political Science
 Social Work
 Sociology/Sociology Criminology
 Spanish
 Telecommunications
 Theater

Only these disciplines are available as programs of study at the present time.

Detailed descriptions of programs of study can be obtained by contacting:

Honors Tutorial College
 Ohio University
 35 Park Place
 Athens OH 45701-2979
 Telephone 740.593.2723
 Fax 740.593.9521
 E-mail honors.college@ohio.edu
<http://www.ohio.edu/honors/>

Administration and Content of Programs of Study

Programs of study are administered by a full-time faculty member appointed by the College. These professors, known as Directors of Studies, act as academic advisors, work with their colleagues to arrange tutorials, conduct admission interviews, and coordinate other aspects of their particular programs of study.

Although Directors of Studies assist students in selecting the proper courses each quarter, students are responsible for seeing that all requirements are met.

Each program of study has its own set of specific academic goals. All programs involve tutorials, but some also ask students to complete a sequence of collateral studies, to participate in a seminar or a lecture series, to pass a set of comprehensive examinations, or to undertake laboratory, field, or studio work. All programs of study

also require the completion of a thesis project. Detailed descriptions of the academic expectations for each program of study can be found on the College Web site or obtained by contacting the College by mail or e-mail.

Degree Requirements

To earn a bachelor's degree in the Honors Tutorial College, you must fulfill all the academic requirements of your program of study, maintain a 3.5 g.p.a. in the courses that are required by your program of study, have at least a 3.3 overall grade point average (g.p.a.), and satisfy the University's English composition requirement. You must also participate in a freshman seminar and a community service project.

The Honors Tutorial College does not mandate a fixed hour or residency requirement or a specific course distribution (except as required by individual programs of study). To earn a second bachelor's degree in another college at Ohio University, you also must complete all the requirements established by the second college.

Degrees conferred by the College include the Bachelor of Fine Arts in (major), Bachelor of Science in Journalism, Bachelor of Science in Communication in (major), Bachelor of Arts in (major), Bachelor of Science in (major), and Bachelor of Business Administration.

Placement of Graduates

The Honors Tutorial College has earned a reputation for graduate and professional school placement. To date, most students wishing to continue their educations have been placed in noted master's programs, doctoral programs, law schools, and medical schools. Other graduates have readily found employment in fields related to their undergraduate work, particularly in journalism, theater, hearing and speech, and business. The small size of the College and the nature of the curriculum allows faculty and the administrators of the College to be of maximum assistance in career planning and graduate school applications.

Housing Privileges

If you are admitted to the Honors Tutorial College, you will be eligible to live in Hoover House, or the Read/Johnson Scholars Complex. Both housing options provide environments conducive to students who must master the academic challenges of Honors Tutorial College programs of study. The College provides detailed information discussing the specific characteristics of each dormitory to students who have been offered admission.

Admission and Application

Because of the nature of its core curriculum, the Honors Tutorial College must restrict the numbers of students that it can accept each year. As a result, the admissions climate is highly competitive. A variety of elements play a role in admissions decisions. For complete application information, please see the College's Web site: <http://www.ohio.edu/honors/>.

The application deadline is December 15th.

Decisions about which students will be invited to campus for a personal interview are made after two rounds of file review. These interviews, held in January of the year that an applicant wishes to enter the College, are a required part of the admission process. After all of the interviews are conducted, a determination will be made about which applicants are to be offered admission. Individuals who are invited to join the College must accept or decline admission by May 1st.

Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

Office of Nationally Competitive Awards (ONCA)

For information about ONCA, refer to the "University-Wide Academic Opportunities" section.

University College

<http://www.ohio.edu/univcollege/>

140 Chubb Hall

David Descutner
*Dean and Associate Provost
for Undergraduate Studies*

William L. Allen
Associate Dean

Laura Chapman
Assistant Dean, Student Services

Cynthia King
*Director, Academic Advancement
Center*

Wendy Merb-Brown
*Director, Learning Community
Programs*

Lora Munsell
Assistant Dean, First Year Programs

Richard Linn
Greg Oberlin
Doug Orr
Char Rae
Amy Rice
Sandy Rawlins
Academic Advisors

University College serves both undecided students who are exploring the University's options before selecting a major and degree program and students who are seeking to earn the Bachelor of Specialized Studies, the Bachelor of Criminal Justice, or associate's degrees.

University College advances the mission of Ohio University by providing institutional leadership across colleges to promote teaching and learning. The College provides a number of University-wide services. University College staff members manage orientation and advising programs, such as Precollege, that assist you in reviewing your interests, planning academic programs, and adjusting to University life. In addition, it oversees the University's general education program and fosters student success through such initiatives as learning communities, study skills and tutoring programs, and workshops.

Majors

Associate in Arts
Arts and Humanities Emphasis
Social Sciences Emphasis

Associate in Individualized Studies

Associate in Science
Bachelor of Criminal Justice
Bachelor of Specialized Studies

advisor for assistance with concerns related to academic and career planning. If you are an associate's degree, specialized studies, criminal justice, or nondegree student, you are also assigned a University College advisor to help you plan an appropriate program. In addition, students in any other college may consult with a University College advisor when their questions touch on University-wide issues or University College programs, or when they are investigating a change of program.

If you are in University College as an undecided student but have a tentative major in mind, you should refer to those requirements outlined elsewhere in this catalog. If you are interested in determining your progress toward one or more majors, the college office can provide you with a "what if" checklist for that major.

Your faculty or professional advisor assists in the preparation of a schedule each quarter so that you select the proper sequence of courses in the major and appropriately related courses. However, it is the student's responsibility to know and follow current requirements and procedures at the departmental, college, and university levels.

Admission Requirements

Any Ohio University student who has fewer than 75 credit hours can be admitted to University College as an undecided student. A separate application is required to enter the Associate in Individualized Studies program, the Bachelor of Criminal Justice program, and the Bachelor of Specialized Studies program. See descriptions of each program later in this section for additional information.

Advising

The highest priority in University College is academic advising. University College faculty advisors and professional advisors strive to inform you about academic options and to assist you with decisions about how you can best use the University to promote your learning and development.

Undecided students, or those who wish to investigate academic options before selecting a major, are admitted to University College. Undecided first-year students typically are assigned two advisors. One is a member of the faculty; the other is a member of the University College professional advising staff. Both will provide information and advice about University programs, choosing a major program of study, and University requirements. You should consult with your advisor about course selection before preregistration each quarter. While advisor conferences are particularly important during preregistration, it is recommended that you maintain regular contact with your

Academic and Other Requirements

Declaring a Major

Beginning in Fall 2006, undecided students in University College who enroll at Ohio University as first-year students must declare a major by the time they earn 75 hours. External transfer students beginning in Fall 2006 may complete two quarters of full-time enrollment before they must declare a major, regardless of their total hours earned. At 75 hours (or the third quarter of enrollment for transfer students), a hold will be placed on the students' registration until they declare a major.

Academic Probation

If you are placed on probation during your first year at Ohio University, whether you are a freshman or a transfer student, you will be required to complete an Academic Success Workshop. This workshop will provide information and strategies to help you return to good academic standing.

Special Programs

College Adjustment Program (CAP)

CAP has provided services and opportunities to help qualified Ohio University students adjust to the challenges of college life since 1979. Along the way, CAP has developed a strong record of aiding in student retention and graduation. CAP is located in the Academic Advancement Center (101 Alden Library) and is supported by Ohio University and by a Student Support Services TRIO grant from the U.S. Department of Education.

The following are some examples of the services CAP offers to assist students as they work toward graduation:

- Special academic courses in learning strategies, reading skills, and computing
- Free individual tutoring
- Math workshops to help students prepare for the Tier I quantitative skills requirement
- An instructional computer lab
- In-depth, one-on-one academic advising
- Career planning and guidance
- Intensive support for students on probation
- Peer advisors to help you find your way
- Tickets to unique cultural and social events on campus and around town

Eligibility for CAP is determined according to a two tier system. Students must satisfy both tiers to be eligible for CAP. As CAP is a small program, space is limited and **eligibility does not guarantee admission**. CAP serves approximately 275 students annually.

Tier 1: To meet this requirement a student must demonstrate an academic need. This is defined as:

- having an ACT Composite less than or equal to 22 or
- having an SAT Combined Score less than or equal to 1100 or
- being ranked in the bottom 60% of his/her high school class or
- possessing a General Education Diploma (GED) or
- being on academic probation (continuing students)

If a student satisfies the Tier 1 requirement, s/he **must also meet at least one of the Tier 2 requirements**.

Tier 2: To satisfy this requirement a student must:

- be a first generation college student (neither parent graduated from a four-year school) or
- come from a family whose income meets federal guidelines for low- income level or
- have a documented disability and be registered with Ohio University's Office of Disability Services

Applicants must also be U.S. citizens or permanent residents.

Most students are admitted to CAP prior to the start of their first quarter at Ohio University. Continuing students who

meet the eligibility requirements may be admitted as long as they have earned fewer than 60 hours of credit.

For more information about CAP please logon to <http://www.ohio.edu/aac/cap/>. You may also contact the Academic Advancement Center at 740.593.2644 or the Assistant Director of CAP via e-mail at lesterj@ohio.edu.

General Education

In 1979 the faculty of Ohio University adopted a comprehensive General Education Program required of all baccalaureate degree students (see Graduation Requirements-University-wide). University College is responsible for coordinating this program. The goal of general education is to broaden and enrich the educational experience of all undergraduate students.

Precollege Orientation

Each summer, University College conducts Precollege Orientation, designed to acquaint you and your parents with the programs of the University. You will meet with faculty, staff, and student advisors to plan an academic program, complete a class schedule, and register for your first quarter. You will also learn about the wide variety of social and group activities available on campus while becoming acquainted with other students in your college. Precollege Orientation programs are also held before the winter, spring, and summer quarters for first-year and transfer students.

First-Year Seminar Course

University College sponsors a special course open to first-year students, UC 115 The University Experience. The course is designed to help first-year students adjust to the new experiences of university life and take advantage of University resources. Topics include University resources, time management, University policies and procedures, and academic major selection. The course includes writing activities, such as journals and one or more short papers. Especially recommended for undecided and first-generation college students.

Learning Communities

Learning communities allow first-year students the opportunity to have the benefits of a small college atmosphere while experiencing Ohio University's large campus culture. Participation in a learning community guarantees students 2-4 common freshman courses for fall quarter. Each community has no more than 25 students. As a result, participating students develop cohesive relationships with their peers and have enriched interaction with faculty. Participation in a learning community gives the opportunity to engage in academic as well as social activities with members of the community.

For more information please visit our Web site at <http://www.ohio.edu/learningcommunities/> or contact:

Director, Learning Community Programs
University College
Ohio University, Chubb Hall 140
740.593.1935
E-mail: learning.communities@ohio.edu

University Professor Award Program

Another of University College's efforts to enhance and reward undergraduate teaching and learning is the University Professor Award Program. To acknowledge outstanding undergraduate teaching, Ohio University students nominate and select University Professors on the Athens campus each year. University Professors are tenure-track faculty members who have demonstrated teaching excellence.

The University Professor Selection Committee consists of representatives from the undergraduate student body.

Upon selection by the student University Professor Selection Committee and final appointment by the provost, each professor is granted a release from part of his or her normal teaching duties and receives \$2,000 for professional development. The University Professor uses this opportunity to develop and teach two original classes.

Degrees Offered

Bachelor of Criminal Justice

Major code BC2209

The upper-division Criminal Justice program is designed for students who have previously completed an associate's degree program in a technical area related to criminal justice, such as law enforcement, corrections technology, police administration, legal assisting, or human services. If you hold such a degree from a technical or community college, or from a regional campus of Ohio University, you are eligible to apply to the Criminal Justice program and may earn a baccalaureate degree by completing a minimum of 80 additional hours of Ohio University work.

This program offers students with technical education background the opportunity to broaden their exposure to liberal higher education while acquiring the necessary specialization to qualify for careers in such fields as parole and probation, forensic science, adult and juvenile corrections, and police administration. Criminal Justice students also may prepare for law school or for further study in graduate or professional schools.

The flexible multi-disciplinary curriculum is composed of a broad range of courses from the social and behavioral sciences, humanities, natural sciences, and professional disciplines, all of which make a contribution to the complex field of criminal justice. You may individualize your program of study to a significant degree through elective courses.

To enter the Criminal Justice program, you must complete a separate degree application form in addition to the application to the University and submit a college transcript showing that you have completed an associate's degree in an appropriate technical field. Applications are available from the University College office or any regional campus student services office. Upon admission, you will be assigned an academic advisor who will assist you in completing your approved program of study.

Bachelor of Criminal Justice students may earn departmental honors through University College. Students must have an accumulated g.p.a. within the top 20 percent of BCJ students to be eligible for departmental honors. An honors thesis is required. Guidelines and an application are available from the college office.

Degree requirements

- 1 Earn 192 credit hours, including at least 80 hours of Ohio University work.
- 2 Must complete at least 45 hours at the 300 level or above.
- 3 Complete the General Education Requirements (Tier I, II, III). Some courses taken to complete the associate's degree may be equivalent to courses that fulfill these requirements.
- 4 Complete the BCJ core and no fewer than 9 courses from within the following BCJ Major Requirement areas:

- 5 At least 50 percent of the coursework taken in the major (core and area requirements) must be completed at Ohio University.

BCJ Core:

Three of the following courses:

POLS 409, PSY 337,

SOC 260, SOC 362, SOC 364, SOC 366.

BCJ Major Requirements:

Area I: Basic Skills. Four courses, one each from A, B, C, and D – (A)

Oral Communication: COMS 103, COMS 205, COMS 215; (B) Ethical

Reasoning: PHIL 130, PHIL 240, PHIL 330, PHIL 331; (C) Statistical

Reasoning: COMS 301, ECON 381, PSY 221, MATH 251, QBA 201; (D)

Research Methods: PSY 226, SOC 351, SW 350.

Area II: Cultural, Legal and Political Issues. Two courses, one each from A

and B – (A) Diversity and Intercultural Understanding: AAS 254, COMS

110, COMS 410, COMS 420, HIST 315C, HIST 315D, SOC 329, SOC 470,

SOC 471, WS 100, WS 200, (B) Political and Legal Issues: PHIL 442, POLS

301, POLS 306, POLS 310, POLS 320, SOC 309, SW 390.

Area III: Understanding Human Behavior and Social Problems. Two courses,

one each from A and B – (A) Theories of Behavior: COMS 422, PSY 233,

PSY 273, PSY 304, PSY 308, PSY 332, PSY 336 or SOC 210, SOC 211, SOC

261; (B) Social Problems: SOC 363, SOC 367, SOC 467, SW 380, SW 382,

SW 440.

Area IV: Professional and Organizational Skills. Two courses, one each

from A and B – (A) Professional Skills: ACCT 101, COMS 304, COMS 306,

COMS 405, POLS 210, POLS 488; (B) Organizational Knowledge: BUSL

255, BUSL 356, HLTH 316, HRM 320, HRM 425, MGT 202, MGT 340, POLS

414, POLS 489, PSY 261, SOC 430.

Recommended electives:

AAS 440, CS 120 or MIS 201, POLS 401, POLS 402.

You choose the remaining hours beyond the core and major requirements in consultation with an academic advisor on the basis of your educational goals and career interests.

Internship and field experience programs may be arranged for qualified students without prior professional experience in criminal justice.

Courses taken to complete the associate's degree cannot additionally fulfill BCJ major requirements (Areas I, II, III, and IV) for the baccalaureate degree.

Bachelor of Specialized Studies

Major code BS1112

The Bachelor of Specialized Studies program affords undergraduate students at Ohio University the opportunity to design an area of concentration, which stands as the equivalent of an established major. The program permits you to combine available curricula to create a unique field of study.

Typically, the Bachelor of Specialized Studies degree is not an appropriate degree program for someone who has previously completed a bachelor's degree. In special circumstances, a person who has completed a prior bachelor's degree may petition the Director of Degree Programs to seek permission to apply for and complete the B.S.S. degree. The B.S.S. program is not an appropriate choice as a second degree program (double major).

The Bachelor of Specialized Studies degree program reflects the recognition that degree programs, as varied as they are at Ohio University, cannot satisfy the legitimate educational requirements of all students. Through specialized studies, you may construct an individualized degree.

To enter the specialized studies program, you must complete an application, available in the University College office, the University College Web site (<http://www.ohio.edu/univcollege/degree/special.htm>), or at a regional campus student services office, and have it reviewed by a University College advisor, Adult Learning Services Advisor, or regional campus student services staff member. You must consult with and gain approval from two faculty members in the prepara-

tion of your program, one of whom must be from your area of concentration. The faculty members must be Group 1 or 2. Final admission is granted only upon successful review of the application by the Bachelor of Specialized Studies review committee, which meets quarterly to consider applications. You will receive a letter indicating the decision of the review committee.

As a student in the Bachelor of Specialized Studies program, you may complete one or more academic minors if the courses taken to meet the minor requirements are not included in the Bachelor of Specialized Studies area of concentration plan. You need to indicate your intention to complete a minor at the time you submit your Bachelor of Specialized Studies application.

Up to 48 hours of credit earned through the Experiential Learning Program may be applied to the Bachelor of Specialized Studies degree program. A maximum of 44 quarter hours from the College of Business may be included in a Bachelor of Specialized Studies degree program.

Bachelor of Specialized Studies students may earn departmental honors through University College. Students must have an accumulated g.p.a. within the top 20 percent of B.S.S. students to be eligible to earn departmental honors. An honors thesis is required. Guidelines and an application are available from the college office or on the Web, <http://www.ohio.edu/univcollege/degree/honors.html>.

To submit an application to the specialized studies program for consideration, you must

- 1 Be currently registered as a degree-seeking student.
- 2 Have achieved sophomore or higher rank.
- 3 Have earned an accumulative g.p.a. of 2.0 or above.

To graduate with a Bachelor of Specialized Studies degree, you must:

- 1 Earn 192 credit hours, of which at least 80 must be courses with catalog numbers at the 300 level or above as shown in this catalog. This does not include graduate level courses.
- 2 Complete no fewer than 45 credit hours of credit (the degree residency requirement) after being admitted to the specialized studies program. This total excludes any transfer, transient, Course Credit by Examination, Independent Study coursework, etc., for which the initial registration occurred prior to application to the specialized studies program.
- 3 Complete a minimum of 45 credit hours in the self-designed area of concentration approved by the Bachelor of Specialized Studies review committee. The area of concentration can include courses that are completed, current, and planned at the time of application. The courses included as current and planned in the concentration become requirements for graduation subject to change only by prior permission from a University College advisor and, in some cases, the Bachelor of Specialized Studies review committee. At least 50 percent of the coursework taken for the B.S.S. Area of Concentration must be completed at Ohio University.
- 4 Complete the University General Education Requirements.
- 5 Complete the minimum of 48 credit hours of Ohio University coursework to satisfy the University residence requirement.

To have current credit hours included as part of the 45 hour B.S.S. residency requirement, applications must be submitted by the last day of classes in fall, winter, spring quarter, or the full-term summer session.

Programs and Courses

SPST 425: Senior Seminar

In a small, interactive class environment, B.S.S. seniors work with each other, Ohio University graduates, and University College faculty and staff to reflect on students' academic experiences and prepare for life beyond Ohio University. Open to all B.S.S. seniors, the course is taught each quarter on the Athens campus. This course is also offered via correspondence through the Distance Learning Office.

SPST 490: Internship

This course is available to all B.S.S. students who develop work or volunteer experience related to their B.S.S. curriculum and who desire to earn up to 10 credit hours for their experience. An internship proposal and 2.5 accumulative g.p.a. is required. Applications are available on the Web (<http://www.ohio.edu/univcollege/degree/internship.html>) and in University College, 140 Chubb Hall.

The Richard Brackin Scholarship

A scholarship awarded each spring to a non-traditional B.S.S. student. Applications are available from a B.S.S. advisor or on the Web (<http://www.ohiou.edu/univcollege/degree/brackin.html>).

Special Projects Fund

B.S.S. students may apply for funding for up to \$500 to support a research project or experiential learning activity related to their programs of study. An application is required and may be obtained from an advisor or on the Web (<http://www.ohio.edu/univcollege/degree/spf.html>).

Associate's Degrees

General Requirements

The minimum requirement for an associate's degree is the completion of 96 credits with a 2.0 accumulative g.p.a. at graduation. A maximum of 24 credits earned through the Experiential Learning Program may be applied to any associate's degree. You must earn at least 30 quarter hours of resident credit at Ohio University. In addition, you must complete Tier I freshman-level requirements in English composition and quantitative skills.

Information about all associate's degree programs is available through either the regional campuses or University College. If you plan to pursue an associate's degree, you must consult with a University College staff member or a student services staff member at one of the regional campuses.

If you plan to earn an associate's degree, you must complete an Application for Update of Program(s), available from any college office or regional campus student services office.

If you are currently enrolled in a baccalaureate degree program and want to earn an associate's degree as well, you must complete an Application for Update of Program(s) to add the associate's degree program as a secondary code. Your records will remain in your current college. If you plan to earn a baccalaureate degree after earning the associate's degree, you must complete an Application for Update of Program(s) to add the bachelor's degree program as a primary code.

Policy on Second Associate's Degrees

You are not permitted to earn both the A.A. and A.S. degrees. If you have already earned the A.I.S. degree, you are not permitted to earn either the A.A. or A.S. degree. If an A.A. or A.S. has been completed previously, you will not be permitted to complete the A.I.S.

Application Toward Bachelor's Degree

Credit earned while enrolled in an Ohio University associate's degree program will be applied toward an Ohio University baccalaureate program.

If you intend to complete a baccalaureate degree, you should complete Ohio University General Education Requirements while working toward your associate's degree.

Associate's Degree After a Baccalaureate Degree

Typically, the Associate in Individualized Studies degree is not an appropriate degree program for someone who has previously completed a bachelor's degree. In special circumstances, a person who has completed a prior bachelor's degree may petition the Director of Degree Programs to seek permission to apply for and complete the A.I.S. degree. The Associate in Arts or the Associate in Science degree will not be granted if you have already earned a baccalaureate degree.

Programs of Study

Associate in Arts/Associate in Science Degrees

If you are planning to transfer from Ohio University to another institution, you are advised to complete the Transfer Module as part of your A.A. or A.S. degree. See the Admissions section of this catalog.

These degrees are available on all campuses. Each degree requires a minimum of 96 hours. A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.A. or A.S. degree. At least 30 of the total credits earned toward the A.A. or A.S. must be Ohio University credits. In addition, at least 50 percent of the coursework taken in the area of concentration for the A.A./A.S. degree programs 60 hours total required in the A.A./A.S. area requirements must be completed at Ohio University. Technical courses count only as electives for both the A.A. and A.S. degrees.

If you plan to earn either the A.A. or A.S. degree, contact the associate's degree coordinator in University College so that the valid major code can be properly recorded.

Associate in Arts—Arts and Humanities Emphasis Major code AA1101

You must meet the following requirements to earn an A.A. with arts and humanities emphasis. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	30
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	15
Social Sciences	15
Electives	36
Minimum required for graduation:	96

Associate in Arts—Social Sciences Emphasis Major code AA1110

You must meet the following requirements to earn an A.A. with social sciences emphasis. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	15
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	15
Social Sciences	30
Electives	36
Minimum required for graduation:	96

Associate in Science**Major code AS1104**

You must meet the following requirements to earn an A.S. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	15
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	30
Social Sciences	15
Electives	36

Minimum required for graduation: 96

You may select courses for the A.A. and A.S. degrees from the following three areas:

Arts and Humanities

African American Studies 110, 150, 210, 211, 250, 310, 350, 355, 356
Art 110
Art History
Classical Archaeology (except 211, 212, 213)
Classical Languages (Latin, Greek)
Classics in English
Communication Studies 101
Dance 150, 170, 171, 351, 352, 353, 370, 471, 472, 473
English (except 150)
Film 201, 202, 203
Foreign Languages (Arabic, Chinese, French, German, Indonesian/Malaysian, Italian, Japanese, Russian, Spanish, Swahili)
History 121, 122, 123, 314A–F, 328, 329A–C, 330, 331, 351, 352, 353A–B, 354, 356A–C, 357, 370, 389
Humanities
Interdisciplinary Arts
International Literature: Modern Languages
Music 100, 120, 124, 125, 150, 321, 322, 323, 421A–F, 427, 428
Philosophy (except 120)
Theater 150, 170, 270, 271, 272
Women's Studies
World Religions

Natural Science, Applied Science, and Quantitative Skills

Anthropology 201, 492, 496
Astronomy
Biological Sciences
Biology 101
Chemical Engineering 331
Chemistry and Biochemistry (except 115)
Communication Systems Management 101
Computer Science
Engineering and Technology 280, 320, 350, 470
Environmental and Plant Biology
Geography 101, 201, 260, 302, 303, 411
Geological Sciences
Health Sciences 202
Hearing, Speech, and Language Sciences 108
Human and Consumer Sciences—Food and Nutrition 128
Industrial Technology 110
Mathematics (except 101, 102)
Mechanical Engineering 100
Philosophy 120
Physical Science
Physics
Psychology 120, 221, 226, 312, 314

Social Sciences

African American Studies (except those courses listed in Arts and Humanities)
Anthropology (except 201, 492, 496)
Business Law 255, 370, 442, 475
Classical Archaeology 211, 212, 213
Communication Studies 351, 352, 353
Economics

Geography (except 101, 201, 260, 302, 303, 411)
 History (except those courses listed in Arts and Humanities) 160
 Human and Consumer Sciences-Child and Family Studies 160
 Human and Consumer Sciences-Retail Merchandising 250
 International Studies 103, 113, 118, 121
 Journalism 105
 Linguistics
 Management 202
 Political Science
 Psychology (except 120, 221, 226, 312, 314)
 Social Work
 Sociology
 Telecommunications 105

Associate in Individualized Studies Degree

Major code AI5508

If you wish to pursue a two-year program of study in a field other than those available through one of the other associate's degree options, you may design your own program of study to meet particular goals through the Associate in Individualized Studies degree program, available on the Athens, Chillicothe, Lancaster, Southern, and Zanesville campuses.

To be admitted to the program, you must complete an application, available in the University College office, the University College Web site (<http://www.ohio.edu/univcollege/degree/AISAPPL.htm>), or regional campus Student Services Office and schedule an interview with a University College, Adult Learning Services, or regional campus advisor. Admission to the program is granted only upon review of the application by the A.I.S. review committee.

Although there are no specific course or academic area requirements (other than Tier I freshman English composition and quantitative skills), the application must outline your intended course of study, and it must include a proposed area of concentration.

You must consult with two faculty members in the preparation of your program, one of whom must be from your area of concentration. Both faculty members must be Group 1 or 2.

To submit an application for admission to the program, you must currently be registered as a degree-seeking student. To graduate with an Associate in Individualized Studies degree, you must

- 1 Earn 96 quarter hours.
- 2 Earn at least 30 quarter hours after admission to the A.I.S. program (degree residency requirement).
- 3 Complete University Tier I freshman-level requirements in English composition and quantitative skills.
- 4 Complete an approved area of concentration, consisting of at least 30 credit hours, which has coherence and educational purpose equivalent to an established degree program. At least 50 percent of coursework for the AIS Area of Concentration must be completed at Ohio University.

Applications may be submitted at any time during the quarter. To have current credit hours included as part of the residency requirement, applications must be submitted by the last day of classes of fall, winter, spring quarter, or the full-term summer session.

A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.I.S. degree.

Reserve Officers' Training Corps (ROTC)

ROTC is based on our Constitution to help "provide for the common defense." Today, when the security interests of this nation are so inextricably involved with world issues, our nation needs talented and well trained officers in its military services. If you have the desire and talent to serve your country, ROTC can lead to a rewarding career as a military officer. Our military needs the best managers, administrators, engineers, and scientists the nation's schools can produce to be leaders with wide ranges of knowledge and skill. The Reserve Officers' Training Corps, in agreement with universities and colleges across the nation, is designed to produce these types of leaders for our nation.

The Army ROTC program at Ohio University is under the Military Science Department (MSC); the Air Force ROTC program is under the Aerospace Studies Department (AST). The University offers two-, three-, and four-year ROTC programs. ROTC is divided into two phases, the general course and the advanced course. Any student can take any of the general classes for elective credit to learn more about our nation's military with no military service commitment. Notice: The ROTC programs at Ohio University may not fully comply with University nondiscrimination policies due to the selective process of military service. However, the ROTC programs are in compliance with national nondiscrimination policies and the guidance and policies of the respective military services and the Department of Defense.

Scholarships

Partial and full scholarships are available on a competitive basis for qualified students. These scholarships pay costs of tuition, mandatory student fees, and a book fee. Additionally, recipients receive a tax-free stipend up to \$400 monthly for the period the scholarship is in effect. Non-scholarship students in the advanced course also receive the tax-free stipend regardless of scholarship status. Ohio National Guard 100 percent tuition assistance is also available.

Summer Field Training

Field leadership training normally occurs during the summer after the sophomore year (Air Force) or junior year (Army). However, exceptions are possible. All travel expenses, board, living quarters, and uniforms are furnished, and you are paid while attending summer field training.

Uniforms and Equipment

Training equipment and uniforms are loaned to all ROTC students without cost.

Commissions

ROTC is a competitive program. If you successfully complete the ROTC advanced program and the requirements for a baccalaureate degree, you will be qualified for a commission as a second lieutenant in the United States Army or the United States Air Force.

Special Schooling

Upon completing their degree and the ROTC program, Air Force ROTC students will start their professional careers in one of over 40 specialized career fields including Operations, Logistics, Engineering, Communications, Nursing, Weather, Intelligence, Space and Missiles, and more. Advanced schooling is provided to initially prepare you for your career field. In addition, the Air Force provides opportunity and resources for its officers to pursue professional continuing education and advanced degrees. Army ROTC students may be selected for a variety of specialized training opportunities, such as Airborne School, Air Assault School, Nurse Summer

Training Program, Pentagon Internships, and Summer Leadership Internships. Army officers can serve in one of 16 career branches, including: combat, combat support, and combat service support options. Selected officers, after entrance on active duty, are sent to civilian universities or service technical institutes for graduate work leading to a master's degree or to a doctoral degree in specialized fields.

Aerospace Studies Program (Air Force ROTC)

The Aerospace Studies Program is designed to develop the character and skills required of professional Air Force officers. The goal is to provide you with the foundation to become an officer in the United States Air Force, while acquiring a baccalaureate degree in a field of your own choosing.

The curriculum during the first two years (the general program, one credit per quarter) is an introduction to the Air Force and its heritage. It focuses on career opportunities, doctrine, mission, and organization of the United States Air Force. It also includes studies in the development of air power and present and future concepts within the Air Force.

Concurrently with these academic subjects, cadets participate in "Leadership Lab" (for an additional one credit hour per quarter). Leadership lab centers around military customs and organization and include hands-on learning that enable you to gain insight into the dynamics of military leadership. There is no service commitment during the first two years (for non-scholarship cadets), and it is an excellent way for you to explore the lifestyle and career options the Air Force has to offer. You must take both the general course and Leadership Lab to be enrolled in the AFROTC program. Optional non-credit summer professional development programs at Air Force bases provide further exposure to the Air Force and are funded by the Air Force.

The advanced curriculum, entitled the "Professional Officer Course," or POC (three credit hours per quarter), is specifically designed to prepare cadets/students for active duty as commissioned officers. Entry into the POC is selective and based on the needs of the Air Force. Studies include military leadership and principles of management during the junior year. The senior year includes defense policymaking, the military professional, strategy, and military justice. It emphasizes professional responsibilities of Air Force officers within our democratic society and how the Air Force supports national goals. Through case studies, guest lectures, and dialogue, you experience a realistic simulation of problems facing officers. As a member of the advanced Professional Officer Course, you develop leadership skills by supervising first year and sophomore cadets in Leadership Lab. You practice communication skills and perform organizational projects similar to those accomplished by active duty Air Force officers. This advanced unit consists of six quarters of on-campus study (3 credits per term), six quarters of Leadership Lab (1 credit per term), and a summer field leadership training encampment.

Flight Qualification. Qualified cadets have the additional option of becoming a flight officer candidate. Selection for pilot or other-rated training will be made during your junior year. If you are selected, you will enter USAF pilot or rated training following graduation and commissioning.

Assignment. Cadets commission and begin their careers as Air Force officers upon completing their undergraduate degree and AFROTC program requirements. After commissioning, you are assigned to a position within the Air Force structure that best combines your academic major and desires with the needs of the Air Force. Past graduates

have been assigned to areas of air operations (both flyers and non-flyers); administration; physical and social sciences; engineering; and research and development in aerospace technologies, to name a few. In addition, qualified cadets can pursue military careers in the medical and legal career fields after completing the AFROTC program.

Military Science Program (Army ROTC)

The Military Science Program is designed to develop the leadership and management skills required of an officer in the United States Army. The military science curriculum complements your normal coursework for a baccalaureate degree and provides a basis for progression toward a commission as an officer in the United States Army. Although the complete program encompasses four years, you can join the program at any point in your time at Ohio University, as long as you have two years remaining. This two-year period can be undergraduate or graduate work.

The first two years of Army ROTC is known as the Basic Course (BC). During the BC, you take classes in general military subjects, including an introduction to the Army ROTC program, basic skills, leadership and team building, and leadership and small-unit operations. These courses provide a basic understanding of the Army and a background for the second two years of the program. During the first two years there is a requirement for wearing of uniforms for lab, but no military service obligation is incurred.

Entrance into the second two years of the Army ROTC (the Advanced Course) is selective and competitive. You can qualify for the Advanced Course by completing the BC, by current service in the National Guard or Reserves, or by attending a four-week ROTC Leaders Training Course. The Advanced Course will expand your knowledge of military subjects, including military justice, tactics, ethics and professionalism, management, training, and current issues affecting the military. In addition to the classroom work, the department conducts a leadership laboratory in which all students take part in planning and conducting such adventure-type outdoor training activities as rappelling, survival swimming, marksmanship, physical training, and land navigation. Advanced course students are required to attend a four-week summer Leadership Development Assessment Course between their junior and senior years. All summer camp expenses, including meals, housing, travel, and uniforms, are paid by the Army. In addition, each cadet is paid approximately \$700 in military pay for camp attendance.

The Department of Military Science also sponsors several extracurricular clubs or activity groups organized by the cadets with faculty advisors, such as the Color Guard, Officer Christian Fellowship, and Ranger Challenge. Cadets may be selected on a voluntary basis for attendance at U.S. Army schools such as Airborne (parachutist) School, Air Assault School, Mountain Warfare, and Northern Warfare School.

Nursing Program

The Army offers two-year scholarships for qualified students pursuing a Bachelor of Science degree in Nursing. Nursing students receive special consideration as they pursue their B.S.N. along with a commission in the U.S. Army. Many of the same requirements apply to nurse candidates. In addition to attending National Advanced Leadership Camp, nursing students receive the opportunity for real-world training at top-quality military and medical centers through the Nurse Summer Training Program.

Center for International Studies

<http://www.ohio.edu/internationalstudies/>

Yamada House

Drew McDaniel
Interim Director

Laura Schaeffer
Coordinator, Bachelor of Arts in International Studies

Ohio University established the Center for International Studies in 1964 to provide students and citizens of the United States and other countries with opportunities to obtain knowledge about the peoples and cultures of the world, particularly Africa, Asia, and Latin America, and about related international concerns. This endeavor is founded on the broad belief that an appreciation of different values and institutions increases understanding between peoples, enriches the lives of individuals, better prepares them for work in a globalized environment, and assists them in forming opinions on issues that affect the global community.

The Center coordinates teaching, research, publication activities, and community outreach through programs related to three world regions—Africa, Southeast Asia, and Latin America—and comparative and international topics. These programs assist in the development of courses, the expansion of library materials, and the education of globally literate citizens. They support visiting lecturers, film series, seminars, and colloquia throughout the year. The African Studies Program has been designated a National Resource Center for African Studies by the U.S. Department of Education. More than 100 scholarly books relating to Africa, Southeast Asia, and Latin America have appeared in the Center's monograph series.

At the undergraduate level, an interdisciplinary Bachelor of Arts in International Studies with concentrations in Asia, Africa, Europe, and Latin America is offered jointly by the Center and the College of Arts and Sciences. The Center also offers nonmajors a certificate in Asian, African, European, or Latin American Studies. (See complete description under the College of Arts and Sciences section of this catalog.)

Community Outreach

The Center houses Ohio University's international community outreach arm, the Ohio Valley International Council (OVIC). OVIC provides opportunities for international students, faculty, staff, and former Peace Corps volunteers to interact with K-12 students, the regional campuses, and the community. OVIC houses a teacher resource center that supplies cultural artifacts and curriculum materials to area schools and community organizations. International students coming to Ohio University are encouraged to bring materials with which they can share their cultures.

Peace Corps

Another of the Center's facilities is the Peace Corps Office, one of about 30 campus-based Peace Corps recruitment offices nationwide. Ohio University counts many returned Peace Corps volunteers among its faculty, staff, and student body.

International Cooperation

Ohio University maintains a proud tradition of international cooperation through its numerous and diverse relationships.

Special international educational programs exist with scores of institutions across the five continents. An ever increasing number of Ohio University faculty members have studied and taught abroad, and offer courses with an international focus. Returned Peace Corps Volunteers and more than 1100 students from approximately 100 countries contribute to the rich international culture of Ohio University.

Alden Library offers some of the best resources in the state related to international themes and issues. The library's materials include Ohio's largest collection on Africa and one of the best collections on Southeast Asia in the world, while the Latin American collection has especially strong Central American holdings. Ohio University is the official depository for government documents from Botswana, Guatemala, Malaysia, and Swaziland. International periodicals, films, videos, and other media are also readily available from the library's extensive holdings.

Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

Lifelong Learning

<http://www.ohio.edu/lifelong/>

Haning Hall

Thomas Shostak
Dean

Richard Moffitt
Assistant Dean

Lifelong Learning offers a variety of innovative and alternative educational opportunities and experiences for both traditional and nontraditional students. With its mission of outreach and access, it extends the services of Ohio University to learners of all ages throughout the world. Lifelong Learning is the home for all continuing education and professional development programs, independent and distance learning options (graduate and undergraduate), and summer sessions. It also offers a variety of learning options in unique formats through Ohio University Without Boundaries and OU On-Line. In addition, Lifelong Learning reaches a world-wide audience through its office of International Outreach.

Classes, independent learning courses, workshops, and seminars—both credit and noncredit, for personal and professional development—are offered in response to interests and needs. Some programs may lead to a degree. If you are interested in seeking an Ohio University degree, you must be admitted through normal University procedures. Participants in designated noncredit courses may earn continuing education units (CEUs).

Options for learning online are offered through all the programs in Lifelong Learning. These include credit courses in both term-based and independent learning formats as well as self-paced noncredit courses.

Lifelong Learning

The Division of Lifelong Learning provides learners of all ages a variety of programs and services.

Each year it offers programs as diverse as regional, national, and international professional conferences sponsored by University faculty and departments and professional associations. Professional development opportunities are provided through online courses and certificates, and workshops and certificate programs. While these programs do not award academic or college credit, many qualify for professional relicensure and recertification. A full listing of educational opportunities and services is available at <http://www.ohio.edu/noncredit/>.

Professional Development programs include career and certificate programs that are taught by University and professional faculty. Professional development staff assists organizations and professions in determining learning needs and developing appropriate solutions to enhance workplace skill and technical development. Many organizations augment hands-on training with Web-based courses. Professional certificate programs in management, Web-design, legal assisting, and Law Enforcement training programs are also available. Many professional development offerings carry Continuing Education Units and some are approved for professional license renewal and recertification.

Conference Management provides complete conference services including program development

and management; Internet, mail, fax and telephone registration; on-site coordination, budgeting and financial management and reporting; marketing, site selection and contract negotiation, and educational meeting planning. These services are available to all University faculty and staff, as well as community, professional, governmental, religious, social, and fraternal organizations. During the summer the University has the capacity to host conference groups of up to 1,500 attendees. Lifelong Learning is the primary contact for organizations interested in the University as a conference site, or in conference management services.

E-Learning—Non-credit E-learning opportunities focus on new career and professional development courses and certificates. We offer several hundred non-credit, Web-based (Internet connection required) programs for adults desirous of increasing their marketable business, professional and technical skills, or who need to acquire new skills in order to become competitive in the business world.

E-learning offers individuals the opportunity to learn new skills at their own pace and on their own schedule. Many courses and all certificates programs provide Continuing Education Units upon successful completion. In addition, E-learning may be eligible for the Lifelong Tax Credit. A complete list of all non-credit E-learning programs can be found at <http://www.ohio.edu/noncredit/>.

Through its Office of Independent and Distance Learning (IDL) Lifelong

Learning offers distance courses in various modes of delivery as well as advising services for nontraditional students earning selected Ohio University degrees.

A complete list of IDL courses and programs is available at <http://www.ohio.edu/independent/>.

Courses completed through any of the Independent and Distance Learning options earn Ohio University resident credit, which can be applied to an Ohio University degree program or transferred to another institution (subject to its restrictions, if any).

Courses are also offered by correspondence and online, developed and graded by University faculty, are structured Independent Learning options. Most are presented in a printed course guide or on the Web; other media may include audiocassettes, videocassettes, CDs, and computer disks. Content is divided into lessons with submitted assignments at the end of each lesson, allowing students and faculty members to participate in a dialogue that may be conducted by postal mail, fax, or e-mail. Supervised examinations are generally required, although in some courses, a project or paper may be required instead. Students may arrange to take examinations at locations near them.

Independent Study Projects can sometimes be arranged in undergraduate courses not currently available as Independent and Distance Learning courses. These arrangements are made on an individual basis and are contingent upon the approval of the department in which the course

is offered and the availability of a qualified faculty member willing to direct the project. Students and faculty members agree upon the conditions that must be fulfilled for credit to be awarded. The work may include a variety of readings, papers, projects, and examinations. This option is most successfully used by experienced students.

Course Credit by Examination represents the least structured method of obtaining college credit through Independent and Distance Learning. Students enroll in a course and receive a brief syllabus that describes the nature of the course, the textbooks and other materials to study, and the type of examination. Students prepare for the examination without assistance from a faculty member. Letter grades, including failures, are recorded. Credit is awarded for a passing grade.

The **External Student Program** is for adults who are interested in a degree without residence on campus. The program provides help in evaluating previous college course work and in planning a degree program. Students can work on one of several associate degrees, the Bachelor of Specialized Studies, the Bachelor of Technical and Applied Studies, or the Bachelor of Criminal Justice by taking Independent and Distance Learning courses by correspondence, Course Credit by Examination, or various online options. Many students also take advantage of the Institutes for Adult Learners and portfolio-based assessment.

The **Experiential Learning Program**, or portfolio-based assessment, helps qualified adults document and receive credit for learning that has occurred through employment or volunteer activities. A maximum of 48 credits may be earned toward a four-year degree. EDCE 203, Credit for Work Experience: Portfolio Development, which focuses on the development of the learning portfolio and is required for the submission of a portfolio, is offered on the Athens and regional campuses and by correspondence.

The **Institutes for Adult Learners** allow adult students to come to the Athens campus for one to three weeks of intensive study. This award-winning program gives students the opportunity to earn college credit with other adults who are pursuing degrees.

The **College Program for the Incarcerated** serves incarcerated adults who wish to earn a degree or college credit. Students receive guidance in evaluating previous college work and planning a degree. The Bachelor of Specialized Studies and three associate degrees are available. Students may also transfer credit to other institutions.

Most credit is earned through Independent and Distance Learning courses, either by correspondence or Course Credit by Examination. Comprehensive fees make college-level study more accessible to incarcerated learners.

The Lifelong Learning Office of Ohio University Without Boundaries designs, develops, and delivers learning experiences that integrate life, work, and learning on a continual basis, regardless of physical location, for professional working people and other adult learners. Offerings include graduate-level degree programs for targeted professionals, executive or professional education and certificate programs for individuals or partner organizations, and online learning communities that provide enrichment opportunities featuring prominent faculty and alumni. Undergraduate course credit is also available through some programs.

Many programs are built upon a learning architecture that combines the convenience of online collaboration and content acquisition with the proven benefits of face-to-face interaction through a small number of high-intensity residencies. Interactive learning modules and enrichment opportunities are presented in a multimedia format, including video, animation, and sound as well as text.

Graduate program offerings include the Master's Program in Athletic Administration, Executive Master of Public Administration, Executive Ph.D. in Higher Education, and Master of Leadership in Educational Administration.

The **Real Estate Certificate program** consists of four undergraduate courses in Real Estate Technology. Completion of these courses qualifies students to apply for the Ohio Division of Real Estate state exam.

Ohio University Degree Program in Hong Kong was established in 1985, in cooperation with Hong Kong Baptist University School of Continuing Education. Ohio University in Hong Kong offers a variety of associate and baccalaureate programs. A listing of the courses and programs and additional information is available at <http://www.ohio.edu/hk/>.

Students can earn their bachelor's degree in four years by attending evening classes full-time or by attending classes part-time and taking as long as they need to complete their degree. Students can attend classes onsite in Hong Kong, study at any of the Ohio University campuses in Ohio, or complete coursework through several

Independent and Distance learning modes. Most students combine several of these options. The degree awarded in Hong Kong is the same degree awarded to students attending classes on campuses in Ohio. All course work can be completed without leaving Hong Kong.

The **Office of Summer Sessions** offers undergraduate and graduate courses, workshops, and special programs on the Athens and regional campuses and online to traditional, non-traditional, visiting, and high school students. Students experience a relaxed campus atmosphere, smaller classes, a friendly and diverse student body, unique and specialized classes and formats, and many extra-curricular events. Summer Sessions provide students with an extra quarter to begin a degree, earn a teaching certificate, learn a new language, update professional skills, or catch up on courses. For complete information about Summer Sessions, please visit <http://www.ohio.edu/summer/>.

This office also administers the Winter Intersession program, one that allows students an opportunity to complete required courses during the long holiday break in December. A variety of courses are available primarily to juniors and seniors.

Ohio University Online delivers into your home the same dynamic, hands-on instruction that characterizes the best on-campus classes. All lesson content for these term-based classes is on the Web, and all communication is by e-mail, including lesson submission and the instructor's responses. Also, we provide the support you need so you won't be left to "go it alone."

Ohio University Online means:

- Ignoring the clock. Come to the online class whenever it's convenient for you!
- Quality education without giving up quality time.
- Small class sizes with one-on-one instructor guidance and personalized communication.
- A large selection of online course options each quarter.

For complete information about Ohio University Online, please visit <http://www.ohio.edu/ouonline/>.

For further information about any of these programs, contact

Lifelong Learning
Ohio University
Haning Hall 102
Athens OH 45701-2979
Telephone 740.597.3005
Web: <http://www.ohio.edu/lifelong/>

University Outreach and Regional Campuses

<http://www.ouorc.ohio.edu/>

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The Office of University Outreach and Regional Campuses provides access to Ohio University degree programs for commuting students throughout southeastern Ohio. Student may attend classes at regional campuses in Chillicothe, Ironton, Lancaster, St. Clairsville, and Zanesville, at centers in Proctorville and Pickerington, or access classes through distance technologies. Both the Associate in Arts and the Associate in Science degrees are available on all campuses, and an array of technical programs leading to either the Associate in Applied Business or the Associate in Applied Science is available on most campuses. Students interested in pursuing a baccalaureate degree can complete at least the first two years of nearly all of the baccalaureate majors available at Ohio University, before relocating to the Athens campus to complete their degrees. In many cases students can go well beyond the first two years, and in selected programs the entire baccalaureate degree can be completed. Currently, students enrolled in general business, education, criminal justice, communication studies, health communication, specialized studies, health services administration, nursing, and technical and applied studies can complete the entire baccalaureate degree program on a regional campus. Regional campuses also offer, in cooperation with the Athens campus, on a rotating basis, selected graduate degree programs in areas such as elementary education, special education, educational technology, journalism, engineering management, social studies, social work, and public administration, as well as others, in their service area.

Regional campuses have an open admissions policy for high school graduates. Ohio high school graduates who can commute from home to one of the regional campuses will be admitted as regular full-time or special part-time students. This decision is based on the high school transcript, Scholastic Aptitude Test, or American College Test (preferred). The regional campuses have no residence halls.

Chillicothe

Ohio University–Chillicothe, founded in 1946 as the first regional campus in Ohio, is located on a 100-acre campus on the western edge of Chillicothe, 45 miles south of Columbus in rural south central Ohio. The Chillicothe campus serves students by providing the academic foundations of a university education as well as career-oriented professional and technical programs and a variety of cultural opportunities. Among campus offerings are two-year technology programs in business management, child development, computer science technology, deaf studies and interpreting, environmental engineering, hazardous materials, human services, law enforcement, nursing, and office technology; as well as the Associate in Arts, Science, and Individualized Studies; and baccalaureate degrees in general business, criminal justice, early and middle childhood education, communication studies, communication in human services, specialized studies, nursing, and technical and applied studies. Time and site-specific master's degrees are offered on a rotating basis.

Eastern

Ohio University–Eastern, established in 1957, is located in St. Clairsville, Ohio. The campus consists of two buildings, Wilson Shannon Hall (1967) and Robert W. Ney Health and Physical Education Center (1997), sitting in the midst of just over 300 acres of rolling hills in rural, eastern Ohio. Accessible directly from Interstate 70, the campus is about five miles from St. Clairsville, Ohio; 14 miles from Wheeling, West Virginia; and 34 miles from Cambridge, Ohio. The campus has taken a leadership role in providing increased access to education with the development of audio, video, and Web-based courses. The Eastern Campus offers the Associate of Arts and Associate of Science degrees, and all of the coursework for these baccalaureate programs: communication in human services, early and middle childhood education, general business, health services administration, communication studies, nursing, criminal justice, specialized studies, and technical and applied studies. Transfer programs are offered in pre-professional science and math areas including medicine, dentistry, pharmacy, physical therapy, veterinary science, environmental science, and engineering specialties. Time and site-specific master's degrees are offered on a rotating basis.

Lancaster

The Lancaster Campus, established in 1956, encompasses 113 acres on Route 37 on the northern edge of Lancaster. It serves students throughout central and southeastern Ohio by providing the academic foundations of a university education as well as career-oriented professional and technical programs and a variety of cultural opportunities. Ohio University Lancaster offers two-year technology programs in accounting, agricultural commerce (in partnership with OSU/ATI), business management, child development, computer science, electronic media, industrial maintenance, law enforcement, and medical assisting as well as associate's degrees in arts, science, and individualized studies. Baccalaureate degrees may be earned in business, communication (communication studies, health, or organizational communication), criminal justice, early and middle childhood education, nursing (for RNs), specialized studies, and technical and applied studies.

The Pickerington Center opened on Stonecreek Drive in 2000 to serve the growing population of northern Fairfield County in a location convenient to metropolitan Columbus. Baccalaureate degrees in criminal justice, organizational communication, and specialized studies may be completed at the Center.

Both facilities offer time- and site-specific master's degrees on a rotating basis.

Southern

Ohio University-Southern was established in 1956 and is located in Ironton, at the center of the metropolitan area that forms the tristate region of Ohio, Kentucky, and West Virginia. Enrollment has more than doubled in the last decade, leading to construction of three new facilities that include classrooms, an auditorium, a library, computer laboratories, a student services center, science laboratories, and offices. Ohio University-Southern offers two-year technology programs in accounting, business management, child development, computer science, electronic media, equine studies, human services, law enforcement, materials management, office technology, and travel and tourism. Associate in Arts, Associate in Science, and baccalaureate degrees in general business, communication, criminal justice, education, health services administration, nursing, and specialized studies are also offered. Time and site-specific master's degrees are offered on a rotating basis.

Zanesville

Founded in 1939, initially an adult education center, Ohio University-Zanesville was established as regional campus in 1946. The campus enrolls approximately 1700 students taught by 50 resident faculty and numerous adjunct faculty. It shares a 179-acre campus with Zane State College. Ohio University-Zanesville offers the first two years of more than 100 academic majors as well as bachelor's degrees in general business, criminal justice, health communication, organizational communication, early childhood education, middle childhood education, industrial technology, nursing, specialized studies, and technology and applied studies. In addition the campus offers associate degrees in nursing, electronic media, science, arts, and individualized studies. Ohio University-Zanesville offers a variety of master's degrees on a rotating basis as well as non-credit courses and

training for business and industry. The nationally accredited Zanesville nursing program has prepared registered nurses for more than 35 years. The campus features five computer labs, a conference center, a 300-seat auditorium, a learning advancement center, a community park, and a gymnasium and fitness center. Ohio University-Zanesville students participate in a variety of men's and women's sports.

Bachelor of Technical and Applied Studies

The Bachelor of Technical and Applied Studies (BTAS), offered on all five regional campuses and through the Division of Lifelong Learning, is primarily intended for students who have already completed a two-year degree program from an accredited community college, regional campus, or technical college, and who wish to pursue a baccalaureate degree. The program provides students with knowledge, skills, and dispositions necessary for advancement in their chosen careers, and integrates the technical skills developed within applied associate degree programs with the professional skills inculcated in a bachelor's degree program. A completion degree, the BTAS utilizes 96 hours of associate degree credit, of which 36-45 hours must be in a technical field. Another 96 hours are needed to meet the minimum for a baccalaureate degree. In addition to the 49-56 hours of major requirements listed below, the student may expect to spend 24-36 hours meeting general education requirements and prerequisites. The remaining 4-23 hours are elective. A course may not count for two requirements within the major. (See also, "Graduation Requirements—University Wide.") Consultation with an academic advisor is highly recommended.

Technical and Applied Studies

Major code BT5510 49-56 hrs

Professional Skills

Choose one course in addition to TAS 301 and TAS 321:

TAS 301	Intro to Technical and Applied Studies	4
TAS 321	Research for Technical & Applied Studies	4
COMS 205	Techniques of Group Discussion	4
or COMS 206	Comm. in Interpersonal Relationships	4
or COMS 304	Principles and Techniques of Interviewing	4
or JOUR 270	Introduction to Public Relations	3
or PSY 221	Statistics for the Behavioral Sciences	5

Choose five courses, at least one from each group

BUSL 255	Business Law	4
or COMS 410	Cross-Cultural Communication	4
or ECON 340	International Trade	4
or ECON 350	Economic Development	4
or GEOG 320	American Ethnic Geography	4
or PHIL 330	Ethics	5
or PSY 378	Psychology of Gender	4
or SOC 329	Race and Ethnic Relations in the United States	4
ECON 320	Labor Economics	4
or GEOG 325	Political Geography	4
or PBIO 311	Biology and Human Affairs	4
or POLS 306	Politics of Appalachia	5
or POLS 488	Public Dispute Resolution	4
or SOC 331	Class and Social Inequality	4
ECON 304	Macroeconomics	4
or GEOG 201	Environmental Geography	4
or GEOL 215	Environmental Geology	4
or HIST 315D	African Americans in American History, 1940-Present	4
or HRM 324	Managing the Employment Relationship	4
or PHIL235	Business Ethics	4
or PSY 337	Social Psychology of Justice	4
or SOC 309	Sociology of Appalachia	4

Behavioral SciencesChoose one course from each group:

AAS 254	History of Injustice in the United States	5
or COMS 304	Principles and Techniques of Interviewing	4
or COMS 306	Interpersonal Conflict Management	4
or COMS 342	Communication and Persuasion	4
or EDCE 410	Human Relations	3
or PSY 233	Psychology of Personality	4
or PSY 261	Survey of Industrial and Organizational Psychology	4
or SOC 340	Population and Society	4
AAS 341	African American Personality	4
or COMS 406	Advanced Interpersonal Communication	4
or COMS 411	Communicating with People with Disabilities	4
or COMS 420	Gender and Communication	4
or EDCE 440	Foundations in Group Dynamics	4
or PSY 336	Social Psychology	4
or PSY 374	Psychology of Adulthood and Aging	4

Leadership and OrganizationChoose two courses in addition to TAS 451:

TAS 451	Technical and Applied Studies Capstone Seminar	4
COMS 405	Meeting and Conference Planning	4
or FIN 301	Introduction to Finance	4
or MGT 202	Management	4
or MGT 240	Introduction to Management and Organizations	4
or MKT 202	Marketing Principles	4
or OPN 300	Fundamentals of Operations	4
or POLS 210	Principles of Public Administration	4
or POLS 489	Nonprofit Management	4

Technical Associate Degree Requirements

The minimum requirement for the Associate in Applied Business (A.A.B.) or the Associate in Applied Science (A.A.S.) degree is the completion of 96 credits with a 2.0 accumulative g.p.a. upon graduation. A maximum of 24 credits earned through the Experiential Learning Program may be applied to any technical associate degree. You must earn at least 30 quarter hours of resident credit at Ohio University; if you complete fewer than 60 quarter hours of Ohio University credit, you must earn at least 8 of your final 15 hours as resident credit. You also must meet Ohio University general education requirements for associate degrees.*

To earn a technical associate degree, you must complete an Application for Update of Program(s), available from any college office or regional campus student services office.

*See also "Associate's Degrees" in the University College section.

Accounting Technology (A.A.B.)**Major code AA5002**

Ohio University–Lancaster and Ohio University–Southern offer a two-year program for accounting technicians leading to the Associate in Applied Business degree. Graduates have obtained employment with hospitals, school boards, CPA firms, retail stores, and drug stores, with duties including payroll, accounts receivable, general ledger bookkeeping, auditing, and tax return preparation.

Core Requirements: 40–43 hours

ATCH 103	Financial Acct. Procedures	4
BMT 115	Found. of Quality and Cont. Improvement	4
BUSL 255	Law and Society	4
CTCH 125	Intro to Computers	4
or BMT 200	Intro to Business Computing	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5

COMS 101	Fundamentals of Human Communication	4
or COMS 103	Fund. of Public Speaking	4
MATH 113	Algebra (or higher Tier 1 quant. skills)	4–5
OTEC 230	Business Comm. II	4
Tier II	Social Sciences	3–5

Major Requirements: 54–56 hours

ATCH 104	Financial Acct. Procedures	4
ATCH 105	Financial Acct. Procedures	4
BMT 101	Business and Its Environment	4
or BMT 110	Intro to Management	4
BMT 140	Concepts of Marketing	4
Choose 4 hours from the following:		
ECON 104	Principles of Macroeconomics	4
ANY 300-level BUSL		
ANY 200-level MGT or higher		
MATH 163A or higher		
PHIL 120	Principles of Reasoning	4
PHIL 130	Intro to Business Ethics	4
PHIL 235	Business Ethics	4

Choose 4 hours of 200-level ATCH, BMT, CTCH, or OTEC courses

	Electives	2–4
28 hours from among the following:		
BMT 210	Finance	4
ATCH 203	Tax and Government Reporting Proced.	4
ATCH 204	Electronic Data Proc. Acct. Procedures	4
ATCH 205	Manufacturing Acct. I	4
ATCH 206	Manufacturing Acct. II	4
ATCH 209	Business Statistics	4
ATCH 225	Federal Income Tax Procedures	4
ATCH 233	Accounting Information Systems	4
ATCH 241	Auditing Procedures	4

Minimum required for graduation: 96**Business Management Technology (A.A.B.)****Major code AA5006**

Ohio University–Chillicothe, Ohio University–Lancaster, and Ohio University–Southern offer a two-year program of study in business management technology leading to the Associate in Applied Business degree. The program offers theoretical concepts taught by instructors who bring practical hands-on knowledge to the classroom. Courses offered take a management approach to the functional areas of business operations; i.e., sales, marketing, supervision, planning, advertising, purchasing, etc. The principles of continuous quality improvement are used throughout the program. The BMT major requires a 12-hour concentration to be determined in consultation with your BMT campus advisor. Concentrations may be designed from a wide range of existing BMT courses or other programs, and may be chosen from areas of study such as marketing, quality, small business administration, real estate, organizational communications, and computer applications, among others. For additional information, contact the director of business management technology at your campus.

Core Requirements: 32 hours

BMT 110	Intro to Management	4
BMT 115	Found. of Quality and Cont. Improvement	4
BMT 140	Concepts of Marketing	4
BMT 150	Elements of Supervision	4
BMT 210	Managing Finance in Business	4
BMT 250	Practical Personnel Procedures	4
BMT 285	Government and Business	4
BMT 260	Business Report Writing	4
or OTEC 230	Business Communications	

Area of Concentration: 12 hours (3 classes)

Related Technology Requirements: 12 hours

8MT 288	Computer Applications for Mgt	4
Select two (2) of the following courses:		
BMT 170	Small Business Operations	4
BMT 200	Intro to Business Computing	4
BMT 275	Managerial Planning	4
CTCH 125	Intro to Computers	4
OTEC 225	Communication Processing I	4
OTEC 226	Communication Processing II	4

General Requirements: 42-44 hours

ATCH 103	Financial Acct Procedures	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
PSY 101	General Psychology	5
Tier I	Quantitative Skills	4-5
Tier II	Any Tier II class not from those listed below	8-10

Select three (3) of the following courses:

ATCH 104	Financial Acct Procedures	4
ATCH 105	Financial Acct Procedures	4
BUSL 255	Law and Society	4
ECON 104	Prin of Macroeconomics	4
COMS 101	Fund of Human Communication	4
COMS 103	Fundamentals of Public Speaking	4

Minimum required for graduation: 98

Computer Science Technology (A.A.B.)**Major code AA5010**

Ohio University-Lancaster, Ohio University-Chillicothe, and Ohio University-Southern offer a two-year program leading to the Associate in Applied Business degree in computer science technology. Courses offered take a business approach to the functional areas of computer programming, systems analysis, and network administration. Contact the director of computer science technology for additional information, including employment opportunities and continuation into the baccalaureate degree program in business or organizational communication.

Core Requirements: 44-47 hours

ATCH 103 or ACCT 101	Financial Acct. Proc. Financial Accounting	4
ATCH 104 or ACCT 102	Financial Acct. Proc. Managerial Accounting	4
BUSL 255	Law and Society	4
CTCH 125	Intro to Computers	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
MATH 113 or other Tier I Math (except PHIL 120)	Algebra	4-5
MATH 250	Intro to Prob. and Stat. I	4
OTEC 230 or QBA 201	Business Communication II Intro to Bus. Statistics	4
Tier II	Social Sciences	3-5

Major Requirements: 53 hours

CTCH 133	Prog. and Design I	5
CTCH 233	Prog. and Design II	5
CTCH 160	Network Concepts I	4
CTCH 161	Network Concepts II	4
CTCH 291A	Systems Analysis I	4
CTCH 285	Database Management Systems	4
CTCH 127	Intro. to Web site Dev. and Mgmt.	4
CTCH 241	Visual Programming	5

Major Electives: 18 hours

Complete eighteen (18) hours from among the following courses.

CTCH 134	Cobol Programming I	5
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CTCH 189B	Internets and Distributed Computing II	4
CTCH 189C	Distributed Computer Applications	4
CTCH 189D	Network Security	4
Any CTCH 200 or higher level course other than CTCH 291A, CTCH 285, and CTCH 241		
EM 215	Intro to Web Design	4
EM 218	Intro to Digital Media	4

Minimum required for graduation: 97

Deaf Studies and Interpreting (A.A.S.)**Major code AA5003**

Ohio University-Chillicothe offers a two-year degree program leading to an Associate in Applied Science in deaf studies and interpreting. The degree is designed for those interested in working as interpreters for the deaf and hearing impaired, providing preparation through courses in the four major sign languages. The program also covers cultural and regional issues, including specific information for law enforcement, medical, educational, and mental health specialists. Students' skills are evaluated at the beginning of the program, again after the first year, and once more at the end.

Technical Requirements: 57 hours

DSI 111	Sign Language and Deaf Culture I	4
DSI 112	Sign Language and Deaf Culture II	4
DSI 113	Sign Language and Deaf Culture III	4
DSI 120	Intro to Deaf Studies and Interpreting	1
DSI 161	Orientation to Deafness	3
DSI 191	Interpreting as a Profession	1
DSI 211	Sign Language and Deaf Culture IV	4
DSI 212	Sign Language and Deaf Culture V	4
DSI 213	Sign Language and Deaf Culture VI	4
DSI 221	Practicum I	2
DSI 222	Medical Personnel and Deaf	4
DSI 224	Interpreters and Interpreting	3
DSI 226	Practicum II	2
DSI 260	Critical and Traumatic Situations	3
DSI 286	Study of Deaf Culture	3
DSI 288	Seminar in Deaf Studies	2
DSI 291	The Professional Interpreter	1
LET 275	Law Enforcement and the Deaf	4
LET 276	Legal Rights of Hearing Impaired	4

General Requirements: 48-49 hours

ANTH 101 or COMS 410	Intro to Cultural Anthropology Cross-Cultural Comm.	4-5
BIOS 103	Human Biology	5
ENG 151	Freshman Composition	5
COMS 101 or COMS 103	Fund. of Human Communication Fund. of Public Speaking	4
MATH 109	Consumer Mathematics	4
PSY 101	General Psychology	5
PSY 273	Child and Adoles. Psych.	4
or PSY 275	Educational Psychology	
PSY 304 or EDSP 271	Human Learning and Cognitive Proc. Intro to Educ. of Except. Children and Youth	4
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 329	Race and Ethnic Relations in the U.S.	4

Minimum required for graduation: 96

Electronic Media (A.A.S.)**Major code AA5013**

Ohio University-Zanesville, Ohio University-Southern, and Ohio University-Lancaster offer a two-year program of study leading to an Associate in Applied Science in electronic media. The program is founded on the belief

that through intensive individualized instruction in a hands-on atmosphere, you can prepare in only two years for a beginning position in the electronic media (radio or TV stations, cable TV, corporate communications, or multimedia production houses).

Along with those who want a production-intensive education, high school graduates who wish further preparation in order to begin their college careers in the School of Telecommunications on the Athens campus can benefit from the associate's program. The program presents you with the opportunity to sharpen your skills before relocating to the School of Telecommunications on the Athens campus. More than 90 percent of those students who complete the associate's degree and then relocate to Athens secure a bachelor's degree. (A 3.0 g.p.a. is expected for relocation to Athens.) Others may wish to pursue the Bachelors of Technical and Applied Studies or Communication Studies degrees on the regional campuses, or may move immediately into communications positions.

The radio-TV studios feature multitrack audio recording, radio operations, and computerized video editing equipment. The hands-on facilities, broadly based curriculum, and small classes, have proven invaluable for students who want to obtain a full view of the field of electronic media. Recent graduates are now working throughout the United States in the communication industry.

General Technical Requirements: 26 hours

EM 101	Intro to Electronic Media	3
EM 211 or TCOM 220	Audio Production-Direction Intro to Audio Production	4
EM 216 or TCOM 240	Intro to Video Production Intro to Video Production	4
EM 257	Adver. in the Media	4
TCOM 110	Telecom. Writing and Prod. Planning	4
JOUR 133 or ENG 280	Precision Writing Expository Writing and the Research Paper	4
EM 289 or 288	Workshops	3

Audio/Video Track Requirements: 33-37 hours

EM 122 or other advisor approved course	Radio-Television Performance	4
EM 214 or EM 217	Advanced Audio Production Advanced Video Production	2
EM 298	Independent Study	1-4
TCOM 170 or TCOM 201	Media Perspectives Media, Culture, and Technology I	4
TCOM 202	Media, Culture, and Technology II	4
TCOM 308	Technical Basis of Telecommunications	4
JOUR 350	Radio Broadcast News	4

Select four (4) hours from:

EM 267	International Media Systems	4
EM 290 or other advisor approved course	Internship Practicum	1

Multimedia Track Requirements: 32 hours

EM 212	Intro to Multimedia	4
EM 215	Intro to Web Design	4
EM 218	Intro to Digital Media	4
EM 288	Workshop	1-3
VICO 120	Intro to Visual Literacy	4
CTCH 127	Intro to Web Design Mgt.	4
ART 110	Seeing and Knowing Visual Art	4
ART 113 or AH 237	Three Dimensional Studies Photo History Survey	4
ART 116	Descriptive Drawing	4

General Ed Requirements: 37-38 hours

CS 120 or CTCH 125 or BMT 200	Computer Literacy Intro to Computers Intro to Business Computing	4
ECON 103 or MGT 200	Prin. of Microeconomics Intro to Management	4
COMS 103	Fund. of Public Speaking	4
ENG 151	Freshman Composition	5
MATH 109	Consumer Mathematics	4
SOC 101 or PSY 101	Intro to Sociology General Psychology	4
POLS 101 or POLS 102	American National Govt. Issues in American Politics	4
Tier II	Arts and Humanities	4
Tier II	Social Science Elective	4

You must complete no fewer than 40 and no more than 48 of the 96 hour total in EM, TCOM, and JOUR courses. You may be required to enroll in additional courses if prerequisites have not been met.

Minimum required for graduation: 96

Environmental Engineering Technology (A.A.S.)

Major code AA5018

Ohio University-Chillicothe offers a two-year program of study leading to an Associate in Applied Science degree in environmental engineering technology. This program will prepare its graduates as environmental professionals to work with numerous federal, state, and local government agencies as well as with private field consulting companies and industry. Graduates will be able to perform environmental field testing and remediation, develop environmental programs, and maintain environmental health and safety control and compliance.

Technical Requirements: 46 hours

EVT 100	Intro to Environ. Engr. Tech.	3
EVT 110	Computational Methods in Environ. Engr. Tech.	3
EVT 115	Legal Aspects of Environ. Engr.	2
EVT 120	Intro to Environ. Chem.	3
EVT 125, 125L	HAZWOPER Training, Lab	4
EVT 140	Intro to Air Pollution	3
EVT 150	Instrumentation in Environ. Analysis	3
EVT 200, 200L	Site Invest., Sampling, and Monitoring, Lab	4
EVT 210, 210L	Intro to Hlth. Physics, Lab	4
EVT 220	Fluid Mechanics	3
EVT 240, 240L	Air Sampling and Analysis, Lab	4
EVT 245	Wastewater Treatment	3
EVT 250, 250L	Analysis of Environ. Pollutants, Lab	4
EVT 260	Environ. Risk Assessment	3

General Requirements: 45-53 hours

CHEM 151, 152, 153 or CHEM 121, 122, 123*	Fund. of Chemistry I, II, III Prin. of Chemistry I, II, III	12-15
CS 135	Special Topics in Programming with BASIC	3
ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
MATH 163A or MATH 115*	Intro to Calculus Precalculus	4-5
BIOS 221	Basic Microbiology	4
BIOS 222	Basic Microbiology Lab	2
PHYS 201 or PHYS 251	Intro to Physics General Physics	5
Tier II	Electives	6-10

Any Tier II course not already required by the EVT program is acceptable, but you are encouraged to select from distribution areas other than Natural Sciences and Mathematics if you intend to pursue a bachelor's degree.

* In special circumstances, students may substitute the CHEM 121 series for the CHEM 151 series, or MATH 115 for MATH 163A. This requires approval by the EVT program coordinator.

Minimum required for graduation: 96

Equine Studies (A.A.S.)

Major code AA5017

Ohio University–Southern offers a two-year program leading to the Associate in Applied Science in equine studies. The program is designed for students who seek enjoyment and/or employment as trained professionals in the horse industry. Positions you may be prepared to pursue upon graduation will vary with the elective equine courses you choose. Possible areas of employment are stable manager, farm manager, riding instructor, equine secretary or records manager, equine sales and marketing agent, horse trainer or assistant trainer, equine journalist, horse show or event manager, horse show judge, national breed association representative, and equine photographer or artist. For additional information, contact the equine studies program coordinator.

Technical Requirements: 37–50 hours

Note: A grade of C (2.0) or better is required in all technical requirements courses.

EQU 101	Intro to Equine Studies	4
EQU 110	Equine Nutrition	4
EQU 120	Equine Anatomy and Physiology	4
EQU 125	Equine First Aid and Preventive Medicine	5
EQU 130	Equine Eval. and Selection	3
EQU 200	Equine Reproduction	4
EQU 215	Equine Business Mgt.	4
EQU 220	Farm and Stable Mgt.	4
EQU 290	Equine Field Experience	1–6
EQU 295	Equine Internship	1–6
	Electives	3–6

Select five of the following courses (at least two seats): 5 hours

Note: A \$50 horse usage fee will be assessed for each riding course.

PED 166	Horseback Saddle Seat I	1
PED 167	Horseback Saddle Seat II	1
PED 168	Horseback Saddle Seat III	1
PED 180	Horseback Saddle Seat IV	1
PED 170	Horseback Hunt Seat I	1
PED 171	Horseback Hunt Seat II	1
PED 172	Horseback Hunt Seat III	1
PED 173	Horseback Hunt Seat IV	1
PED 174	Horseback West I	1
PED 175	Horseback West II	1
PED 176	Horseback West III	1
PED 177	Horseback West IV	1
PED 178	Horseback Jumping I	1
PED 179	Horseback Jumping II	1
PED 194	Horseback Trail Riding	1

General Requirements: 49 hours

Note: A grade of C (2.0) or better is required in all general requirements courses.

ATCH 103	Financial Acct. Procedures	4
ATCH 104	Financial Acct. Procedures	4
BIOL 101	Principles of Biology	5
CS 120	Computer Literacy	4
ENG 151	Freshman Composition	5
COMS 101	Fund. of Human Communication	4
JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
MATH 109	Consumer Mathematics	4
MGT 202	Management	4
PE55 227	First Aid	3
PSY 101	General Psychology	5

Minimum required for graduation: 96

Hazardous Materials Technology (A.A.S.)

Major code AA5004

Ohio University–Chillicothe offers a two-year degree program leading to an Associate in Applied Science in hazardous materials technology. The program is designed for men and women interested in the challenging and expanding career options available in hazardous waste management, control, and remediation. The goal of this program is to further your knowledge of the types and effects of various hazardous substances, as well as to provide clarity on the regulations, standards, and guidelines established for proper waste disposal. For further information on the program and possible career opportunities, contact the director of the hazardous materials technology program. In order to broaden and improve your employment opportunities, you are encouraged to further your education in such bachelor's degree programs as industrial hygiene, environmental engineering technology, or safety sciences.

Technical Requirements: 49–50 hours

EVT 100	Intro to Envir. Eng. Tech.	3
HMT 110	Haz. Mat. Regulation I	4
HMT 120	Hazard Communication Standard	3
HMT 130	Industrial Processes	3
HMT 140	Haz. Mat. Regulation II	4
HMT 150	Emergency Response I	3
HMT 200	Haz. Mat. Recov., Incineration, and Disposal	4
HMT 210	Haz. Mat. Regulation III	4
HMT 220	Haz. Mat. Health Effects	3
HMT 230	Emergency Response II	3
HMT 240	Haz. Mat. Testing	4
HMT 289A or LET 250	40-hour HAZWOPER Vice and Narcotic Control	3–4
HMT 289B	Haz. Mat. Instrumtn.	4
HMT 289C	Radiation Biology and Protection	4

General Requirements: 50–54 hours

BIOL 101 or BIOS 103	Principles of Biology Human Biology	5
BIOS 130	Prin. of Human Anatomy and Physiology I	5
CHEM 121 or CHEM 151	Prin. of Chemistry I Fund. of Chemistry I	4–5
CHEM 122 or CHEM 152	Prin. of Chemistry II Fund. of Chemistry II	4–5
CHEM 123 or CHEM 153	Prin. of Chemistry III Fund. of Chemistry III	4–5
CHEM 301	Organic Chemistry	3
ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
COMS 304	Prin. and Techniques of Interviewing	4
MATH 113	Algebra or higher Tier I MATH	4–5
PE55 227	First Aid	3
PHYS 201	Intro to Physics	5

Minimum required for graduation: 96

Human Services Technology (A.A.S.)

Major code AA5201

Ohio University–Chillicothe and Ohio University–Southern offer a two-year program leading to an Associate in Applied Science in human services technology. Previous graduates have obtained employment in the fields of mental health, social services, child care, corrections, chemical dependency counseling, and other human service related areas.

Technical Requirements: 46-48 hours

HST 100	Intro to Human Services	4
HST 150	Behavior Management I	3
HST 151	Behavior Management II	4
HST 170	Group Dynamics I	4
HST 171	Group Dynamics II	3
HST 190	Case Management	4
HST 200	Personal Management	3
HST 210	Practicum I	2
HST 211	Practicum Seminar I	1
HST 220	Practicum II	2
HST 222	Practicum Seminar II	1
HST 250	Practicum III	2
HST 255	Practicum Seminar III	1
HST 275	Community Resources	3
	HST electives or approved technical electives	10-12

Support Course Requirements: 23-26 hours

COMS 101 or COMS 103 or COMS 110	Fundamentals of Human Comm.	4
	Fundamentals of Public Speaking	4
	Communication between Cultures	4
	COMS Elective	4
	POLS Elective	4-5
PSY 233 or PSY 273-	Psychology of Personality	4
	Child and Adoles. Psych.	
PSY 332	Abnormal Psychology	4
	Social Science Elective	3-5

General Requirements: 27-30 hours

BIOS 101 or BIOL 103 or PBIO 103 or HCFN 128 or HLTH 202 or HLTH 204	Principles of Biology	4-5
	Human Biology	
	Plants and People	
	Intro to Nutrition	
	Intro to Health and Lifestyle Choices	
	Alcohol, Tobacco, and Other Drugs	
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5
Tier I	Freshman Composition	5
Tier I	Quantitative Skills	4-5
	Elective (MATH 101 if needed)	4-5

Minimum required for graduation: 96**Industrial Maintenance Technology (A.A.S.)****Major code AA5020**

Ohio University-Lancaster offers a two-year program leading to an Associate in Applied Science in industrial maintenance technology. The program has been developed in response to the great demand expressed by manufacturers for skilled technicians. It is intended to train for career fields related to those of the electrician, machine repair technician, or maintenance technician. Students may direct the program to a specific career opportunity through independent study and externship courses.

Technical Requirements: 65 hours

BMT 115	Found. of Quality and Cont. Improvement	4
ETCH 110	Basic Electronics	4
ETCH 111	AC and DC Circuit Analysis	4
ETCH 120	Digital Electronics	4
ETCH 220	Electrical Motors, Control Circuits, and Computers	4
ETCH 221A	Programmable Controllers, Instrumentation, and Process Control I	4
IMT 110	Applied Manufacturing Techniques	3
IMT 115	Welding and Fabricating	3
IMT 117	Metal Machining I	3
IMT 150	Machine Repair I	3
IMT 217	Metal Machining II	3
IMT 220	Basic Hydraulics and Pneumatics	4

IMT 230	Tool Design	4
IMT 240	Materials and Material Testing	3
IMT 250	Machine Repair II	3
IMT 275	Self-Directed Work Teams	4
IMT 290	Externship	4
MMT 200	Computer Applications in Materials Mgt	4
MMT 263	Process Control	3

General Requirements: 31-33 hours

ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
IT 101	Engineering Drawing I	3
IT 102	Engineering Drawing II	3
IT 110	Intro. to Manufacturing Process	4
Tier I	Quantitative Skills	4
Tier II	Humanities	4-5
Tier II	Social Sciences	4-5

Highly Recommended Electives: 2-8 hours

IMT 189	Special Topics	1-3
IMT 289	Independent Study	1-5

Minimum required for graduation: 98**Law Enforcement Technology (A.A.S.)****Major code AA5505**

Ohio University-Chillicothe, Ohio University-Lancaster, and Ohio University-Southern offer a two-year program leading to an Associate in Applied Science in law enforcement technology. This program prepares you for employment in law enforcement by providing academic preparation for the contemporary officer. Career opportunities may be available in such areas as state highway patrol, local and county law enforcement agencies, corrections, juvenile authorities, and as probation officers. Upon completion of this program, if interested, you may continue in the Bachelor of Criminal Justice program on the Athens campus. You may also work toward the Athens-based baccalaureate degree in forensic chemistry. Additional information is available from the law enforcement technology program director or Regional Higher Education.

Technical Requirements: 46 hours

LET 100	Intro to Law Enforcement Tech.	3
LET 105	Ethics and Legal Issues	4
LET 110	Police Role in Crime and Delinquency	3
LET 120	Constitution, Criminal, and Civil Law	3
LET 145	Intro. to Criminalistics	4
LET 150	Police Patrol Operations	3
LET 200	Procedures, Rules, and Test of Evidence	4
LET 215	Cybernetics and Principles of Information Competency	4
LET 245	Law Enforce., Admin., and Leadership	4
LET 250	Vice and Narcotic Control	3
LET 255	Criminal Justice Research Methods	4
LET 265	Introduction to Criminal Investigation	4
LET 280	Traffic Enforce., Educ., and Engineering	3

General Requirements: 51-54 hours

CS 120	Computer Literacy	4
ENG 151	Freshman Composition	5
COMS 101 or COMS 103	Fund. of Human Communication Public Speaking	4
PED or LET 290	Physical Activity Courses (1 cr. each) Special Problems	6
PESS 227 or HLTH 202	First Aid Health Science and Lifestyle Choices	3 to 4
POLS 101 or POLS 102 or POLS 210	American National Govt. Issues in American Politics Prin. of Public Admin.	4

POLS 320 or LET 290	Urban Politics R Terrorism	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	1
SOC 260 or SOC 362	Criminal Justice Criminology	4 4
Tier I	Quantitative Skills	4 to 5

Minimum required for graduation: 96

Medical Assisting Technology (A.A.S.)

Major code AA5019

Ohio University-Lancaster offers a two-year program leading to the Associate in Applied Science in medical assisting technology. The program is designed to provide you with the knowledge and skills necessary in both the scientific/clinical areas and the business/administrative areas of the medical assisting field. Medical assistants are allied health professionals who work in a variety of health care settings.

MAT students are required to complete a health form and have a doctor certify that they are sufficiently healthy to perform clinical and externship duties. Students are required to have up-to-date immunizations for MMR, Varicella, TB (within the last 10 years), Hepatitis B, and PPD (within one year of program entry date). Students also are required to have current provider level CPR (adult, child, infant) and First Aid prior to taking Clinical Techniques, Administrative MA, and Externship courses. These must be documented in writing to the MAT program director by March 1st, prior to enrollment in MAT 170 and MAT 201. Contact the director of the Medical Assisting Technology program for further information.

The Medical Assisting Technology (MAT) Program at Ohio University-Lancaster is accredited by the commission on Accreditation of Allied Health Education Programs (<http://www.caahep.org/>) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE). CAAHEP, 1361 Park Street, Clearwater FL 33756, 727.210.2350.

Technical Requirements: 39 hours

All required MAT courses must be completed with a grade of C or better.

MAT 101	Intro to Medical Assisting	2
MAT 140	Medical Terminology	3
MAT 150	Medical Transcription	3
MAT 170	Administrative Medical Assisting	4
MAT 201	Clinical Techniques I	4
MAT 202	Clinical Techniques II	4
MAT 203	Clinical Techniques III	4
MAT 210	Law and Ethics for Medical Assisting	2
MAT 230	Insurance Billing/Coding	4
MAT 250	Computerized Office Procedures	4
MAT 290	Special Topics	2
MAT 295	Externship	3

Related Basic Requirements: 12 hours

ATCH 103	Financial Acct. Procedures	4
CTCH 125	Intro to Computers	4
OTEC 122*	Keyboarding II	4

*This course has a prerequisite of OTEC 121 Keyboarding I. Students are expected to have had Intro to Keyboarding. If they are not level II, they will need to take OTEC 121 or establish course credit by examination.

General Requirements: 48 hours

BIOS 103	Human Biology	5
BIOS 130	Prin. of Human Anatomy and Physiology I	5
BIOS 131	Prin. of Human Anatomy and Physiology II	5
ENG 151	Freshman Composition	5
HCFN 128	Intro to Nutrition	4
HLTH 202	Health Science and Lifestyle Choices	4
HLTH 217	Intro to Hlth. Care Orgs.	4
COMS 103	Fund. of Public Speaking	4
MATH 109	Consumer Mathematics	4
PESS 227	First Aid	3
PSY 101	General Psychology	5

Electives: 5-9 hours

MAT 291	Independent Study	1-5
OTEC 123	Keyboarding III	4

Minimum required for graduation: 99

Nursing (A.A.S.)

Major code AA2342

Ohio University-Zanesville, Ohio University-Chillicothe, and Ohio University-Southern offer a two-year nursing program. Upon completing the program, you receive an Associate in Applied Science in nursing and are eligible to take the National Council Licensure Examination for Registered Nurse. The program is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006; telephone 800-669-1656 ext. 153. All nursing courses (NURS) must be completed with a grade of C or better.

To apply, you must be a high school graduate or hold a certificate of high school equivalency (GED). A high school g.p.a. of 3.0 on a 4.0 scale or established college g.p.a. of 2.75 or better is expected. To be reviewed by the selection committee, you must have completed courses in biology, algebra, and chemistry at the high school or college level with a grade of C or better in each course. All students are required to take the ACT COMPASS examination before admission to the nursing program. "Scores" of Tier I Quantitative, English 151, and reading level of at least 80 are expected. The ACT COMPASS examination is administered on all campuses.

The Ohio University Lancaster Medical Assisting Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (<http://www.caahep.org/>) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE).

Technical Requirements: 64 hours

NURS 110	Foundations of Nursing I	4
NURS 111	Foundations of Nursing II	4
NURS 115	Commun. in Nursing	1
NURS 120	Assessment of the Middle and Older Adult	2
NURS 121	Assessment of the Neonate Through Young Adult	2
NURS 130	Pharmacology in Nurs. I	1
NURS 131	Pharmacology in Nurs. II	2
NURS 132	Pharmacology in Nurs. III	2
NURS 210	Health Alterations I	7
NURS 211	Health Alterations II	7
NURS 212	Health Alterations III	7
NURS 220	Maternal, Newborn, and Women's Hlth. Alterations	5
NURS 230	Mental Health Alterations	5
NURS 240	Child and Adolescent Health Alterations	5
NURS 260	Transition to Nursing Practice	10

General Requirements: 44 hours

BIOS 130	Prin. of Human Anatomy and Physiology I	5
BIOS 131	Prin. of Human Anatomy and Physiology II	5
CHEM 121	Prin. of Chemistry I	4
ENG 151	Freshman Composition*	5
HCFN 128	Intro to Nutrition	4
BIOS 201	Elementary Microbiology	4
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
SOC 101	Intro to Sociology	4
	Elective**	3

Minimum required for graduation: 107

The sequence of the first-year support courses may not be altered; second-year support course sequence may be altered with permission. A curriculum sheet with the actual sequencing outline can be obtained from the Associate's Degree Nursing Office.

*Taken prior to completion of the nursing program.

**Recommended: Fine Arts, Humanities, C5 120, PSY 273.

Office Technology (A.A.B.)**Major code AA5014**

Ohio University–Chillicothe and Ohio University–Southern offer a two-year program of study leading to an Associate in Applied Business degree in office technology. This program provides knowledge in many phases of business and incorporates the development of supervisory skills. For additional information, contact the office technology program director at your campus.

Technical Requirements: 49–60 hours

OTEC 248	Admin. of Record Systems	3
OTEC 121	Keyboarding I	4
OTEC 122	Keyboarding II	4
OTEC 130	Business Communication I	4
OTEC 171	Administrative Procedures I	4
OTEC 172	Administrative Procedures II	4
OTEC 200	Desktop Publishing I	3
OTEC 221	Dictation/Transcription	4
OTEC 225	Commun. Processing I	4
OTEC 226	Commun. Processing II	4
OTEC 227	Commun. Processing III	4
OTEC 230	Business Communication II	4
MATH 109	Consumer Mathematics	4
OTEC 290	Seminar	1–4
OTEC 299 or OTEC 201	Internship Desktop Publishing II	1–4

Business Core Requirements: 26–28 hours

ATCH 103	Financial Acct. Procedures I	4
ATCH 104	Financial Acct. Procedures II	4
OTEC 258	Stress Management for Office Personnel	3
BMT 150 or OTEC 267	Elements of Supervision Office Supervision	4
BUSL 255	Law and Society	4
OTEC 268	Information System Design	3
COMS 101 or COMS 103	Fund. of Human Comm. Fund. of Public Speaking	4

General Education Requirements: 14–15 hours

Tier I	English Composition	5
Tier I	Quantitative Skills (Note: MATH 109 satisfies this requirement.)	4–5
Tier II	Social Sciences	5

Minimum required for graduation: 96**Travel and Tourism (A.A.S.)****Major code AA5016**

Ohio University–Southern offers a two-year program leading to the Associate in Applied Science in travel and tourism. Upon completion of the program, you may seek employment as a travel professional in travel agencies, tourist organizations, and other travel-related businesses. For additional information on employment opportunities, contact the director of travel and tourism.

Technical Requirements: 34 hours

TAT 150	Travel Career Dev. Part I	3
TAT 151	Travel Career Dev. Part II	3
TAT 160	Destination Training—North America	3
TAT 161	Destination Training—Ohio	3
TAT 162	Destination Training—Western Europe	3
TAT 163	Destination Training—Asia	3
TAT 164	Destination Training—Mexico, Caribbean	3
TAT 250	Trav. Rules and Regulations	4
TAT 270	Travel Comp. Program Train.	3
TAT 280	Seminar—Travel Planning and Counseling	1
TAT 281	Practicum—Travel Planning and Counseling	2
TAT 282	Seminar—Tour Planning and Direction	1
TAT 283	Practicum—Tour Planning and Direction	2

Business Core Requirements: 31 hours

ACCT 101 or ATCH 103	Financial Accounting Financial Acct. Procedures	4
ACCT 102 or ATCH 104	Managerial Accounting Financial Acct. Procedures	4
C5 120 or BMT 200	Computer Literacy Intro to Business Computing	4
ECON 103	Prin. of Microeconomics	4
COMS 103	Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
MGT 200	Intro to Management	4

General Requirements: 32 hours

ENG 151	Freshman Composition	5
GEOG 121	Human Geography	4
MATH 109	Consumer Mathematics	4
PESS 227	First Aid	3
PESS 228	CPR	1
SPAN 111, 112, 113 or	Elementary Spanish other modern foreign language	12
	Elective	3

Minimum required for graduation: 96

Courses of Instruction

Catalog Numbers

The catalog number indicates the student classification for which the course is primarily intended:

001-099	Noncredit courses
100-299	Undergraduate general program
300-499	Undergraduate advanced or specialized program

Within the College of Arts and Sciences, the alphabetical catalog-number suffixes -I and -O generally are not used. Other alphabetical suffixes have specific meanings: -H, departmental honors courses; -J, junior-level composition courses; -T, honors tutorial courses; -X, study abroad courses.

Credit

Credit for a course is indicated by the number or numbers in parentheses following the course title. It may be expressed (3), (1-3), or (2 or 3).

A course with one quarter hour of credit (1) is the equivalent of one recitation or two or more laboratory periods per week throughout a quarter.

In a course carrying variable credit, the credit may be expressed (1-4, max 8), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one quarter. However, you may enroll in the course any number of times and for any number of credit hours within the quarter limit, provided the total registration for the course does not exceed the overall maximum.

Courses that satisfy one of the University General Education Tier I or Tier II requirements are indicated by a notation on the title line. Tier I courses are marked either (1E) for English composition or (1M) for quantitative skills; Tier II designations are (2A) applied sciences and technology, (2C) cross-cultural perspectives, (2H) humanities and fine arts, (2N) natural sciences and mathematics, and (2S) social sciences.

Courses that satisfy General Education Tier III requirements are grouped under the heading Tier III.

Tier III equivalent courses are indicated in the course listings by an italicized notice at the conclusion of the course description.

Prerequisites

Course prerequisites are indicated at the beginning of the course description, following the abbreviation "Prereq." If you have any doubts about whether you have fulfilled prerequisites due to

changes in the numbering system over the past several years, check the course titles and consult with your advisor and the office of the dean. Even if you have not met the prerequisites, you may add a course by obtaining the instructor's permission. Once you have completed an advanced course, you may not subsequently enroll in a prerequisite course for credit.

Instructors

Unless otherwise indicated in italics following the quarter specification in the courses description, the course may be taught by any member of the staff of the department.

Fees

When a course requires a private instructional fee, the amount is stated in the course description.

Rank

The minimum student rank or standing, when applicable, is indicated by the following abbreviations:

Freshman: fr

Sophomore: soph

Junior: jr

Senior: sr

Unless the prerequisite states that the course is not open to students above the stated rank (e.g., "fr only"), you can enroll if you are at or above that rank.

Lecture and Laboratory Hours

Lecture, laboratory, and recitation hours are respectively abbreviated "lec," "lab," and "rec."

Schedule

A *Schedule of Classes* is available online each quarter from the Registrar's Office at <http://www.ohio.edu/registrar/>. Some courses may not be offered during the quarter which you intend to take them. Students should contact the department offering the course for more specific scheduling information.

Areas of Study

The following areas of study are included in this section. The course prefix follows each area.

Accounting (ACCT)

Accounting Technology (ATCH)

Aerospace Studies (AST)

African American Studies (AAS)

Anthropology (ANTH)

Art (ART)

Foundation Courses

Art Education

Ceramics

Graphic Design

Painting

Photography

Printmaking

Sculpture

General Courses

Additional Art Courses

Regional Campus Offerings

Art History (AH)

Aviation (AVN)
 Biological Sciences
 Biological Sciences (BIOS)
 Biology (BIOL)
 Business Administration (BA)
 Business Law (BUSL)
 Business Management Technology (BMT)
 Chemistry (CHEM)
 Classical Archaeology (CLAR)
 Classics and World Religions (CLWR)
 Classics in English (CLAS)
 Communication Studies (COMS)
 Communication Systems Management (COMT)
 Comparative Arts (CA)
 Computer Science (CS)
 Computer Science Technology (CTCH)
 Dance (DANC)
 Deaf Studies and Interpreting (DSI)
 Design Technology (DTCH)
 Economics (ECON)
 Education
 Counselor Education (EDCE)
 Curriculum and Instruction (EDCI)
 Cultural Studies (EDCS)
 Computer Technology (EDCT)
 Early Childhood Education (EDEC)
 Educational Administration (EDAD)
 International and Comparative Education (EDIC)
 Middle Childhood Education (EDMC)
 Professional Laboratory Experience (EDPL)
 Secondary Education (EDSE)
 Special Education (EDSP)
 Teacher Education (EDTE))
 Electronic Media (EM)
 Electronics Technology (ETCH)
 Engineering, Chemical (CHE)
 Engineering, Civil (CE)
 Engineering, Electrical (EE)
 Engineering, Industrial and Systems (ISE)
 Engineering, Mechanical (ME)
 Engineering and Technology (ET)
 English
 English (ENG)
 Humanities (HUM)
 Environmental and Plant Biology (PBIO)
 Environmental Engineering Technology (EVT)
 Equine Studies (EQU)
 Film (FILM)
 Finance (FIN)
 Foreign Languages and Literatures
 Chinese (CHIN)
 French (FR)
 German (GER)
 Greek (GK)
 Indonesian/Malaysian (INDO)
 International Literature in English: Linguistics (ILL)
 International Literature in English: Modern Languages (ILML)
 Italian (ITAL)
 Japanese (JAPN)
 Latin (LAT)
 Modern Languages (ML)
 Russian (RUS)
 Spanish (SPAN)
 Swahili (SWAH)
 Geography (GEOG)
 Geological Sciences (GEOL)
 Global Learning Community (GLC)
 Hazardous Materials Technology (HMT)
 Health and Human Services (HS)
 Health Sciences Environmental Health (EH)
 Health Sciences (HLTH)
 Industrial Hygiene (IH)
 Hearing and Speech Sciences (HSS)
 History (HIST)
 Human and Consumer Sciences
 Child and Family Studies (HCCF)
 Food and Nutrition (HCFN)
 General Education (HCGE)
 Interior Design (HCID)
 Retail Merchandising (HCRM)
 Human Resource Management (HRM)
 Human Services Technology (HST)
 Industrial Maintenance Technology (IMT)
 Industrial Technology (IT)
 International Studies (INST)
 Journalism (JOUR)
 Law Enforcement Technology (LET)
 Linguistics (LING)
 Management (MGT)
 Management Information Systems (MIS)
 Marketing (MKT)
 Materials Management Technology (MMT)
 Mathematics (MATH)
 Medical Assisting Technology (MAT)
 Military Science (MSC)
 Music (MUS)
 Applied Music
 Music Education
 Music History and Literature
 Independent Studies in Music
 Music Theory and Composition
 Music Therapy
 Nursing Associate's Degree Program (NURS)
 Baccalaureate Program for RNs (NRSE)
 Office Technology (OTEC)
 Ohio Program of Intensive English (OPIE)
 Operations (OPN)
 Philosophy (PHIL)
 Physical Therapy (PT)
 Physics and Astronomy
 Astronomy (ASTR)
 Physical Science (PSC)
 Physics (PHYS)
 Political Communication (POCO)
 Political Science (POLS)
 Professional Communication (PRCM)
 Psychology (PSY)
 Quantitative Business Analysis (QBA)
 Real Estate Technology (REAL)
 Recreation and Sport Sciences
 Athletic Training (RSAT)
 Physical Education Activity (PED)
 Physical Education and Sport Sciences (PESS)
 Recreation Studies (REC)
 Security/Safety Technology (SST)
 Social Work (SW)
 Sociology (SOC)
 Technical and Applied Studies (TAS)
 Telecommunications (TCOM)
 Theater (THAR)
 Tier III (T3)
 Travel and Tourism (TAT)
 University College (UC)
 University Professor (UP)
 Visual Communication (VICO)
 Women's Studies (WS)

Accounting (ACCT)

- 101 Financial Accounting (4)**
 Prereq: Tier I math or higher placement. (fall, winter, spring, summer) Introduction to the accounting process and external financial reporting. Introduction to compound interest concepts.
- 102 Managerial Accounting (4)**
 Prereq: 101, ECON 103. (fall, winter, spring, summer) Uses of accounting information for making managerial decisions. Study of cost behavior, overhead costs allocation, basic cost accumulation systems, elementary capital budgeting, master and flexible budgets, and cost control.

- 298 Internship (1)**
 Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.
- 303 Intermediate Accounting I (4)**
 Prereq: 102. (fall) In-depth study of conceptual framework of accounting, disclosure standards for general purpose financial statements, and measurement standards for cash, receivables, inventories, and associated revenues and expenses, including application of compound interest techniques. Required for accounting major.
- 304 Intermediate Accounting II (4)**
 Prereq: 303, and perm. (winter) Measurement and reporting standards for tangible and intangible operating assets, investments, liabilities, contingencies, stockholders' equity, and special problems of revenue recognition. Required for accounting major.
- 305 Intermediate Accounting III (4)**
 Prereq: 304. (spring) Measurement and reporting standards for pensions, capital leases, interperiod tax allocation, dilutive securities and earnings per share; accounting changes and error correction; statement of cash flows; financial statement analysis; special disclosure standards; financial reporting and changing prices. Required for accounting major.
- 310 Cost Accounting (4)**
 Prereq: 102. Emphasis on manufacturing and service organizations. Topics include process costing, activity-based costing/ activity-based management, analysis of cost variances, and complex capital budgeting issues. Required for accounting major.
- 311 Industrial Accounting (4)**
 Prereq: 101, 102, jr. Primarily for nonaccounting majors. Explains how accounting data can be interpreted and applied by management in planning and controlling business activities. Shows how accounting data can help solve problems confronting management. Attention also given to use of accounting data by investors, potential investors, and lenders. Concentration on use of data rather than collection and presentation.
- 312 Accounting for Health Care Organizations (4)**
 Prereq: 101, 102, jr. Introduces student to use of accounting data in planning and controlling health care organizations. Basic cost accounting theory and applications stressed as aids to fee setting, budgeting, asset acquisition functions.
- 317 Federal Income Taxes (4)**
 An overview of the impact of federal income taxes on conducting business. Required for accounting major.
- 340 Advanced Cost Accounting (4)**
 Prereq: 310, jr. Current cost accounting topics. May include case studies, ABC costing and asset variation, and role playing.
- 345 Accounting Systems and Internal Control (4)**
 Prereq: 303 or perm. Computer technology as it relates to design, implementation, and operation of accounting information systems. A major portion of the course devoted to internal control procedures. Required for accounting major.
- 347 Tax Research (4)**
 Prereq: 317, jr. Advanced tax problems of individuals, partnerships, and corporations with emphasis on tax research and research methodology.
- 398 Internship (1-4)**
 Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experiences following the sophomore year.
- 406 Advanced Accounting (4)**
 Prereq: 305. Business mergers, consolidated financial statements, partnerships, international operations, corporate bankruptcy, and branch office accounting.
- 407 Seminar in Current Topics (4)**
 Prereq: 305. Research in current accounting issues, including written and oral reports of findings.

413 Governmental and Nonprofit Theory and Practice (4)

Prereq: ACCT major, 303 or perm. Accounting theory for governmental and nonprofit organizations. financial reporting, fund accounting; budgeting and control.

451 Auditing Principles (4)

Prereq: 305 or perm. (fall) Basic concepts and applications in external, internal, and governmental auditing. Includes an introduction to current audit technology. *Required for accounting major. Tier III equivalent course*

452 Advanced Auditing (4)

Prereq: 451. Auditing theory and practice with emphasis on current issues, professional standards, ethics, legal liability, special reports, special industries, and advanced auditing techniques.

457 Advanced Tax (4)

Prereq: 317 or perm. Tax aspects of corporate organizations; distributions, reorganizations and liquidations; partnerships; Sub S corporation; estates and trusts.

491 Seminar (3, 4, or 5)

Prereq: perm. Selected topics of current interest in accounting area.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of accounting under direction of faculty member.

498 Internship (1-4)

Prereq: perm. (fall, winter, spring, summer).

Accounting Technology (ATCH)

The following courses for the A.A.B. in accounting technology are available on the Lancaster and Southern campuses.

103 Financial Accounting Procedures (4)

(fall) Fundamental accounting principles for service businesses and merchandising enterprises; debits, credits, and double entry; journalizing and posting; accounting systems and special journals; accounting for purchases and sales, cash, receivables, interest, revenue, and expense; financial statement preparation, including adjusting and closing procedures

104 Financial Accounting Procedures (4)

Prereq: 103. (winter) Accounting procedures for inventory, current liabilities, financial statement analysis, and annual reports; managerial accounting concepts and principles; job order cost systems.

105 Financial Accounting Procedures (4)

Prereq: 104. (spring) Long-term investments; plant assets; intangible assets; long-term liabilities; accounting procedures for owners' equity in single proprietorship, partnership, and corporation; statement of cash flow.

203 Tax and Governmental Reporting Procedures (4)

Prereq: 104. (spring) Consideration of data sources, forms, and filing requirements for payroll taxes, income taxes, withholding taxes, FICA, sales taxes, unemployment reports, and wide variety of other specialized local, state, and federally required reports and procedures.

204 Electronic Data Processing Accounting Procedures (4)

Prereq: 105, CTCH 125 or equiv, and MATH 113. (fall) Use of computers to perform both specialized and routine accounting functions formerly done by hand. An integrated general ledger program and an electronic spreadsheet program are used.

205 Manufacturing Accounting I (4)

Prereq: 105, MATH 113. (winter) Study of cost behavior; data collection procedures and reports for manufacturing firms, job order costs; process costs; standard costs; overhead allocation methods.

206 Manufacturing Accounting II (4)

Prereq: 205. (spring) Continuation of 205.

209 Business Statistics (4)

(winter) Basic statistics, demonstrated and developed through problems typical of actual business situations. Procedures and applications of statistical analysis and inference as they relate to business activity.

225 Federal Income Tax Procedures (4)

Prereq: for credit, 203; for noncredit, perm. (fall) Comprehensive course in fundamentals of federal income taxation and preparation of individual, partnership, and corporation tax returns.

233 Accounting Information Systems (4)

Prereq: ATCH 105 or ACCT 102. Fundamental accounting principles and practices using data accumulation and working paper techniques employed by professional accountants in reporting on merchandising, manufacturing, and service companies. Application of generally accepted accounting principles to preparation of general purpose financial statements for internal and external use. Accounting software will be emphasized

241 Auditing Procedures (4)

Prereq: 203. (spring) Study of purposes and scope of audits including audit objectives, professional ethics, audit files and working papers, legal responsibilities, internal control, tests of transactions, audit procedures and disclosure requirements, and preparation of audit reports.

299 Independent Study (1-5, max 10)

Prereq: perm. Supervised independent study projects in accounting technology

Aerospace Studies (AST)

Air Force ROTC

The Department of Aerospace Studies offers various programs, all of which can lead to a commission as a second lieutenant in the United States Air Force.

The three and four-year program is designed for students who can begin Air Force ROTC in their freshman or sophomore year and complete aerospace studies requirements by their date of graduation.

The two-year program is designed for students entering AFROTC in their junior year. It is similar to the last two years of the four-year program. Consult the chair of the Department of Aerospace Studies for instructions regarding application for this program.

The one-year program is limited to seniors and graduate students in specialized majors. Consult the chair of the Department of Aerospace Studies for further information. Graduate students may also be able to enter the program.

Entry into the Professional Officer Course (AST 300 and 400 series) is based upon the needs of the Air Force.

Upon graduation and commissioning, you are normally required to serve four years active duty as an officer with the United States Air Force. For further information contact the chair of the Department of Aerospace Studies, Lindley Hall 233.

101 Introduction to the U.S. Air Force (1)

(winter) Role of officer and subordinate, communication, and general organization of the United States Air Force.

101L Leadership Laboratory (1)

Prereq: Concurrent with 101. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

102 Air Force Missions (1)

(fall) The mission of major Air Force command organizations, base services, professions, and an introduction to flight.

102L Leadership Laboratory (1)

Prereq: Concurrent with 102. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

103 Defense Policy and Forces (1)

(spring) Defense policy, general purpose, and Air Reserve Forces with emphasis on the role of the officer in this arena.

103L Leadership Laboratory (1)

Prereq: Concurrent with 103. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

201 History of Air Power (1)

(fall) History and development of air power in the U.S.

201L Leadership Laboratory (1)

Prereq: Concurrent with 201. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

202 Air Power Today (1)

(winter) Covers Air Force concepts, doctrine, and employment: how technology has affected growth and development of air power.

202L Leadership Laboratory (1)

Prereq: Concurrent with 202. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

203 Uses of Air Power (1)

(spring) Changing mission of defense establishment: how air power is employed in military, nonmilitary, and strategic operations.

203L Leadership Laboratory (1)

Prereq: Concurrent with 203. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

204 Field Training (3)

(summer) Field training experience at various U.S. locations for military training and indoctrination through practical application of common military customs and courtesies.

301 Management-Concepts and Practices I (3)

(fall) Military professionalism and leadership theory; strengths and weaknesses of various leadership styles; review of responsibilities, authority, and functions of Air Force officers. Development of communication and leadership skills.

301L Leadership Laboratory (1)

Prereq: Concurrent with 301. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

302 Military Professionalism and Leadership Theory (3)

Prereq: 301 or perm. (winter) Review of selected concepts, principles, and theories of management as applied in the Air Force. Continued development of communication and leadership skills.

302L Leadership Laboratory (1)

Prereq: Concurrent with 302. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

303 Management-Concepts and Practices II (3)

Prereq: 302 or perm. (spring) Development of communication skills in the Air Force style and format. Emphasis on basic writing and briefing techniques; counseling fundamentals of the Air Force officer and the officer promotion system are also reviewed.

303L Leadership Laboratory (1)

Prereq: Concurrent with 303. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

304 Advanced Field Training (1)

(summer) A variety of professional development training programs designed for students to experience active duty opportunities.

401 The Military and the American Society (3)

Prereq: 303 or perm. (fall) Study of the military and the professional soldier in democratic society and the military as socializing institution. Communicative skills via student oral presentations and written reports emphasized.

401L Leadership Laboratory (1)

Prereq: Concurrent with 401. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

402 Strategy and the Use of Force (3)

Prereq: 401 or perm. (winter) Evaluation of strategy and study of arms control, general and limited

war. Continues communicative skills via student presentations and written reports. Emphasizes qualities and techniques of leadership.

402L Leadership Laboratory (1)

Prereq: Concurrent with 402. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

403 American Defense Policymaking (3)

Prereq: 402 or perm. (Spring) Organization and case studies in defense policymaking and bureaucratic decision making and preparation for active duty. Continues communicative skills and techniques of leadership. Examines military law and topics preparing officer candidates for active duty.

403L Leadership Laboratory (1)

Prereq: Concurrent with 403. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

African Studies

See International Studies.

African American Studies (AAS)

101 African American History I, 1526-1865 (4) (25)

Survey of key economic, political, ideological, and social elements that shaped destinies of black people in the United States from 1526 to 1865.

106 Introduction to African American Studies (4)

Interdisciplinary course designed to introduce students to field of African American studies. Focuses upon subject matter, scope, assumptions, and methods of various academic disciplines that are constituent parts of African American Studies Program, and seeks to show how these disciplines collectively contribute to broadest understanding of African American experience and, thus, of the general American experience from a black perspective.

110 Introduction to African American Literature (4) (2H)

Provides general introduction to and overview of canon of African American literature. By examining a variety of texts, genres, themes, and issues in literature by black Americans, this course seeks to establish foundations and achievements of African American literary tradition.

150 Introduction to Black Media (5) (2H)

Historical analysis of images of blacks in cinema, radio, and television programming; origin and development of stereotypes; relationship of these images to societal developments; examination of alternatives.

153 History of Colonialism (4)

Historical-social analysis of development of colonialism in Africa, how colonialism led to underdevelopment of Africa, and review of ideological justification of this phenomenon. Special focus placed on development of colonialism in 19th and 20th centuries up to Year of Africa (1960). Specific attention given to ideological contribution of Frantz Fanon to colonial situation. Combination of books in fields of history, psychology, economics, and literature so student will obtain integral picture of colonial period.

180 Introduction to African American Education (4)

Explores historical and philosophical foundations, development of education for African Americans, and formulations of dual educational system. Makes comparisons and contrasts among various philosophical views which have shaped formation of American educational institutions, theories, and practices.

202 African American History II, 1865 to Present (4) (25)

Survey of key economic, political, ideological, and social elements that have shaped destinies of black people in the United States from 1865 to present.

210 African American Literature I (4) (2H)

First of 2-qttr survey of African American literature. Covers period from about 1760 to end of Harlem Renaissance. Focuses on such writers as Phillis Wheatley, Frederick Douglass, Charles W. Chesnut, Paul Laurence Dunbar, James Weldon Johnson, and writers of Harlem Renaissance—Claude McKay, Jean Toomer, Langston Hughes, Countee Cullen, Zora Neale Hurston. Folk literature and other materials important to an understanding of African American literary tradition will be included.

211 African American Literature II (4) (2H)

Begins where 210 ends. (However, 210 not a prereq.) Treats African American literary expression from around 1940 to present. Writers included are Richard Wright, Margaret Walker, Gwendolyn Brooks, Ralph Ellison, James Baldwin, Amiri Baraka, Ishmael Reed, and others who have contributed to African American literary tradition.

220 Theories of African American Social Development (4)

Exploration of theories or political policies and economic processes, their interrelations, and their influence on socioeconomic character of black community.

225 History of the Black Worker (4)

Analysis of historical role of black labor force in American economy, with emphasis on patterns of relationships between black workers and general organization of American labor movement.

235 Comparative Neo-Colonialism (4)

Attention paid to historical-social analysis of neo-colonialism—how new methods and maneuvers used to exploit labor and resources in 20th century. Focus on Africa, although students' areas of interest will also be accommodated.

250 Foundations of African American Arts and Culture (4) (2H)

Provides introductory examination of African American experience through concern with sociocultural approaches to modes of thought, cultural institutions, historical experiences, lifestyles, and artistic expression. As cultural history, designed to provide understanding of foundations, sources, and history of ideas of African American experience. Considers influence of traditional African arts and culture on development of cultural traditions in Americas, early African American arts and crafts, and development of the African American culture tradition from slavery to present.

254 History of Injustice in the United States (5)

Critical analysis of problems in the U.S. Special attention given to (1) education, (2) voting, (3) social services, (4) fair housing, and (5) legal system.

310 Contemporary African American Literature (4)

Focuses on African American literature of the 1960s and since. Concerns writers who emerged as major figures during this period. Attention also given to major literary, cultural, and aesthetic developments that fashioned new favorability among black writers.

311 African American Literature: Special Topics (4)

Prereq: soph. Intensive study of selected theme or topic. Course will vary from qtr to qtr; thus students should check departmental brochure to ascertain topic any given qtr.

317 Caribbean Literature: Major Authors and Movements (4)

Survey of literature in English and translations written by Caribbean authors. Major themes and literary movements of Caribbean discussed: Negritude, Négrismo, ancestral imperative, search for identity, reordering of group images. Transcultural and syncretic elements discussed. Outside readings essential for class contributions.

340 The Black Community in Post-World War II (4)

Survey of black community's development during 20th century and its relation to development of larger American society over same period. Focus on post-WW II community processes.

341 African American Personality (4)

Examination of organization and structure of African American personality within American

and African sociopsychological contexts. Special emphasis on various forces which shape African American personality.

345 The Black Woman (4)

Prereq: soph and perm. Roles of black women in education, social development, and stabilization of their families. Impact of history of oppression and struggle on social psychology of black women.

346 Black Men and Masculinities (4)

This course is designed to assist students in (1) investigating the theoretical questions generated through a systematic study of Black manhood; (2) applying these theoretical insights and tools to a range of political, cultural, and economic issues; and (3) exploring the multiple meanings that Black men in the Americas attach to work, family and community.

350 African American Arts and Artists (4) (2H)

Intensive study of African American artists, aesthetic principles, and African American arts movements from the late 19th century to present. Development of black professional artists, artists of Harlem Renaissance, black cultural nationalist art, modernism and African American artists, social protest, and street murals among topics covered.

352 Blacks in Contemporary American Cinema (4) (2H)

Prereq: 150. This course explores the representation of African Americans in contemporary American cinema since the 1970s. It also examines the contributions of African Americans on both sides of the camera, as well as various themes conveyed in the films of the period.

353 Survey of Black Independent Cinema (4)

Prereq: 150. Examines the history and current status of independent black filmmaking. Independents have often served as a counter to Hollywood's limited portrayal of African Americans. The impact, relevance, and aesthetics of films from the black voice will be studied.

355 History of African American Music I, Slavery-1926 (4)

Sociohistorical examination of African American music and its role in shaping American music. Recordings and guest lectures used as integral part of course. Examines spirituals, rural blues, ragtime, and early jazz.

356 History of African American Music II, 1926-Present (4)

Socio-historical analysis of African American music and its role in shaping modern American music. Recordings and guest musician/lecturers used as integral part of course. Examines big band era, urban blues, bebop, rhythm and blues, hard bop, black classical composers, contemporary popular, and avant-garde musics.

360 Black Politics in the United States (4)

Examines American political system from perspective of black political behavior and relationship of blacks to political system at national, state, and local levels. Includes analysis of civil rights movement as well as sociopolitical movements associated with ideologies of black nationalism and black liberation.

364 Comparative Study of Injustice (4)

Comparative analysis of different approaches to civil and human rights in selected developed and developing countries. Review of theory of justice and political consequences in chosen countries.

368 Black Political Thought (4)

Analysis of basic tenets of black thought in U.S. Emphasis on theoretical dimensions of post-Civil War black social and political thinkers.

370 Urban Violence (4)

Systematically examines empirical and theoretical literature on urban violence, particularly riots during 1960s.

380 Seminar in African American Education (4)

Prereq: 8 hrs of education or social sciences. An examination of critical issues in contemporary society that affect the education of African Americans. Topics to be explored include status and preparation of teachers, curriculum development, educating black children for the 21st century, multicultural education, impact of computer technology and scientific developments as they

affect African American students, teachers, and parents

411 Literature Seminar (4)
Subject varies. May be repeated as subject changes.

430 Social Theories of Underdevelopment (4)
Systematic review of problems of social change in developing areas from multidisciplinary point of view. Due attention given to problems of agrarian reform, urbanization as social process, regional disparities within framework of single nation/state inter alia. Comparative analysis of problems of social development undertaken typologically

432 Third World National Movements (4)
Comparative study of varieties of national oppression. Question of ethnonationalism, clerical nationalism, and other forms of response to oppression reviewed. Due attention given to various notions of Pan-Africanism and Black Nationalism in U.S., Africa, and Latin America.

440 The Black Child (5)
Entails in-depth analysis of black child, impact and effects of growing up black in America. Specifically, seeks to determine effects and role of family, school, neighborhood, economic status, and society at large on sociological and psychological development of black child

460 Social Processes: Third World Urbanization (4)
Deals with laws of development of urbanization as it relates to anatomy of civil society. Special focus on how current urban crisis related to structural, cyclical, and general crisis of modern society. Political economy of urban ghetto both in U.S. and Third World singled out for special inquiry. New thought given to suburbanization process so-called "Post City Phenomenon," etc. Due focus on connection between urban crisis, racial problems, and possibility of American apartheid. Urbanization as social process in Africa, Asia, and Latin America studied comparatively.

482 The Black Family (4)
Black family in America and its important role in development of ethnic differences, strengths, and strategies.

490 Independent Study (1-5)
Prereq: perm. Primarily for students interested in concentrated study in specific area in cooperation with advisor.

Anthropology (ANTH)

101 Introduction to Cultural Anthropology (5) (2C)
Students learn about the core concepts used in cultural anthropology and how anthropologists study human cultures and societies. Consideration is given to the relevance of anthropological theories, methods, and ethics in the context of contemporary culture contact and culture change, taking into account processes of colonialism, globalization, and development. Students gain an appreciation of the broader goals of cultural anthropology, namely to record and attempt to represent the multitude of other voices and perceptions as well as develop a fundamental respect for human diversity. Fulfills Tier II Cross-Cultural Perspectives requirement.

201 Introduction to Biological Anthropology (5) (2N)
Evolutionary theory; primates; fossil record of human evolution; mechanics of evolution; human variation. Fulfills Tier II Natural Science requirement.

202 Introduction to World Archaeology (5) (2C)
Basic concepts; how archaeologists reconstruct extinct societies and explore cultural evolution. Fulfills Tier II Cross-Cultural Perspectives requirement.

301 Anthropology and Film (5)
Prereq: 101. The use of film as a medium for recording cultural information; as a technique for observation, analysis, and interpretation of cultural information; and as a means for presenting information about cultures, human adaptation, human evolution, and anthropological research itself.

345 Gender in Cross-Cultural Perspective (4)
Prereq: 101 and soph. Considers the range of cultural diversity in defining gender roles; comparative approach towards understanding the behaviors and perceptions associated with gender

346 Introduction to Human Osteology (4)
Prereq: 201 or LET 140 or BIOS 171. This course focuses on the identification, study and analysis of the human skeleton. Students will learn the micro-anatomy and macro-anatomy of human bone and how skeletal remains are analyzed.

348 Education: Cross-Cultural Perspectives (4)
Prereq: 101. Survey of cross-cultural education systems.

349 Life History: The Individual and Culture (4)
Prereq: 101. Survey of ways of growing up in various cultures, emphasizing the relationship between the individual and culture.

350 Economic Anthropology (4)
Prereq: 101. Survey of economic arrangements found in various types of cultural systems; economic exchange systems, anthropological analysis of economic life.

351 Political Anthropology (4)
Prereq: 101. Anthropological exploration of various political systems, cross-cultural examination of political leadership, political power, conflict, resistance, etc. Emphasis on non-Western, non-industrialized cultures.

355 Medical Anthropology (4)
Prereq: 201. Non-Western medical systems and theories of health and disease causation; social basis for diagnosis and cure, curing rituals; symbolism of health and illness. Ecological factors in health and nonhealth, systemic connections between health concepts, culture, and environmental situations.

356J Writing in Sociology and Anthropology (4) (1J)
Prereq: jr or 13 hrs sociology and/or anthropology. Jr-level composition course for sociology and anthropology majors and students in related fields. Combines writing instruction with consideration of substantive social science topic. Students will try various genres of social science writing (book reviews, grant proposals, field notes, interviews, etc.).

357 Anthropology of Religion (4)
Prereq: 101. Anthropological consideration of ritual and myth in various cultures; shamanism, trance, taboo, etc., in social systemic, symbolic, structuralist, and ecological perspective. Comparison of different anthropological frameworks for understanding religious phenomena.

361 North American Prehistory (4)
Prereq: 202. Analysis and interpretation of the cultural evolution of indigenous North American Indian cultures. Emphasis placed on those cultures from Ohio and the Midwest.

363 Gender in Prehistory (4)
Prereq: 101, 202, and soph. Examines the application of gender studies as an analytic tool for archaeological reconstructions. Considers evolving gender roles within a wide range of past cultural settings.

364 Near East Prehistory (4)
Prereq: 202. Scrutiny of the archaeological data and consequent reconstruction of the evolutionary process affecting cultures in the Near East. Analysis begins with the earliest occupation of the region and ends with the establishment of various state systems.

366 Cultures of the Americas (4)
Prereq: 101, 202. Survey of past and/or present cultural diversity present in North, South, or MesoAmerica or the Caribbean with emphasis on application of anthropological method and theory to understanding of particular sociocultural systems. Emphasis varies by instructor.

367 South American Prehistory (4)
Prereq: 202. Reconstruction, analysis, and interpretation of the process of cultural evolution as expressed by the ancient societies of South America.

370 Mexican/Central American Prehistory (4)
Prereq: 202. Reconstruction, analysis, and interpretation of the process of cultural evolution in pre-Hispanic Mexico and Central America. No credit if 368 taken.

371 Ethnology (4)
Prereq: 101. Focuses on the comparative study of ethnographic data, societies, and cultures. While *ethnography* acquires data through fieldwork and provides descriptive accounts of particular communities, societies, or cultures, *ethnology* relies on, synthesizes, and compares data collected by a series of researchers across cultures. Students will become familiar with several classic ethnological works framed within the context of the history of anthropological thought.

372 Cultures of the World (4)
Prereq: 101. Ethnographic sampling of similarities and differences in cultural systems found around the world and through time. Ethnographic focus varies. May be taken twice for credit

373 Perspectives in Anthropology (4)
Prereq: 101, 201, 202. Includes topics from the following areas of anthropological concern: nature of scientific inquiry, ethnology, linguistics, archaeology, biological anthropology.

375 Culture and Personality (4)
Prereq: 101, psychology recommended. Interrelations between personality systems and cultural systems.

376 Culture Contact and Change (4)
Prereq: 101. Impacts of cultures upon one another, immediate and subsequent cultural adaptations; theory of change.

377 Peasant Communities (4)
Prereq: 101. Focuses on folk component of state societies.

378 Human Ecology (4)
Prereq: 101 or 202. Analysis of mutual and reciprocal relations between sociocultural systems and other systems in their environment; ecosystems and biotic communities in which human populations are included.

381 Cultures of Sub-Saharan Africa (4)
Prereq: 101. Survey of cultural diversity present in Sub-Saharan Africa with emphasis on application of anthropological theory and method to understanding of particular sociocultural systems.

383 Cultures of Latin America (4)
Prereq: 101. Survey of cultural diversity present in Latin America with emphasis on the application of anthropological theory and method to the understanding of particular sociocultural systems.

385 Cultures of Southeast Asia (4)
Prereq: 101. Survey of cultural diversity present in island and mainland Southeast Asia with emphasis on the application of anthropological theory and method to the understanding of particular sociocultural systems.

386 Problems in Southeast Asian Anthropology (4)
Prereq: 101. Selected topics of current concern across Southeast Asian cultures and societies. Students will apply contemporary social theory to particular case studies.

387 Pacific Island Cultures (4)
Prereq: 101. Anthropological exploration of Pacific island cultures and their evolution.

388 Cultures of the Middle East (4)
Prereq: 101. Survey of sociocultural systems in Contemporary Middle East and North Africa with applications of anthropological theory to analyze cultural similarities and differences. (Usually Zanesville campus only.)

391 Primate Social Organization (4)
Prereq: 101, 201. Exploration of nonhuman primate social behavior and social organization from anthropological perspective, with special focus on development of human cultural behavior.

399 Readings in Anthropology (1-6, max 6)
Prereq: major, 20 hrs ANTH. Supervised readings in various fields of anthropology: archaeology, ethnology, linguistics, biological anthropology.

447 Forensic Anthropology (4)

Prereq: 201 or LET 140 or BIOS 171. Forensic anthropology deals with the identification of human remains in situations which generally result in litigation. The recovery and analysis of remains unrecognizable by conventional methods is covered.

448 Blood, Bones, and Violence (4)

Prereq: 447 or LET 140 or BIOS 171. The identification, study and analysis of trauma and how it affects the human skeleton.

452 Anthropological Archaeology (4)

Prereq: 202 and one 300-level course in archaeology or perm. Explores contemporary archaeology in which goals, methods, and theory are considered within the framework of science. *This is a Tier III equivalent course.*

455 Seminar in Methodology and Field Research (4, max 8)

Prereq: 20 hrs ANTH. Survey of methods and practical experience in the collection and analysis of data in cultural anthropology or archaeology. Includes considerations of ethics in fieldwork and the institutional review of research proposals. Fulfills subfield requirement in cultural anthropology or archaeology, depending on course content.

460 Kinship

Prereq: 20 hrs ANTH. Theoretical framework and ethnographic work on kinship systems of various world cultures; non-Western family systems; kinship terminology, social change in kinship systems.

465 Field School in Ohio Archaeology (5-10)

Prereq: one 300- or 400-level ANTH course. Actual archaeological investigation of prehistoric Indian sites in Ohio. Involves survey, excavation, and laboratory analysis of materials, as well as lectures on anthropological archaeology as they pertain to Ohio.

472 History of Anthropological Thought (4)

Prereq: sr., 35 hrs ANTH including 101, 201, 202. Overview of the dominant theories and perspectives that have shaped cultural anthropological research and writing over the past hundred or so years. *This is a Tier III equivalent course.*

490 Independent Research in Anthropology (1-10, max 10)

Prereq: major, 20 hrs ANTH. Individual research in anthropology in specific problem areas in which student has demonstrated ability and interest.

492 Human Evolution (4)

Prereq: 201, jr. In-depth examination of evidence for biological macro-evolution of humankind. Hominoid and hominid fossil record; speciation; interpretation of fossil remains; and "fit" between paleontological and immunological approaches.

494A Seminar in Cultural Anthropology (4)

Prereq: 2 cultural ANTH courses at 300 level or above. Advanced course dealing with topics of current research interest in cultural anthropology. Topic varies according to individual course.

494B Seminar in Biological Anthropology (4)

Prereq: 373 or 391 or 492 or 496; jr. Advanced course dealing with topics of current research interest in biological anthropology. Topic varies according to individual course.

494C Seminar in Archaeological Anthropology (4)

Prereq: 361 or 363 or 364 or 367 or 370; jr. Advanced course dealing with topics of current research interest in archaeological anthropology. Topic varies according to individual course.

494D Seminar in Human Ecology (4)

Prereq: 2 ANTH courses at 300 level or above or perm. Advanced course dealing with topics of current research interest in human ecology. Topic varies according to individual course.

495 Honors Thesis in Anthropology (1-5)

Prereq: Sr., 3.5 g.p.a., and perm. Thesis option for majors.

496 Human Diversity (4)

Prereq: 201, jr. Exploration of human biological

diversity/variability with emphasis on the populationist approach, namely anthropological genetics and demography.

499 ANTH Internship (1-4)

Prereq: ANTH major, 20 hours ANTH, overall G.P.A. and ANTH G.P.A 2.5 or above, perm. Internship option for majors.

Archaeology

Classical Archaeology, see Classics and World Religions. Anthropological Archaeology, see Anthropology.

Art (ART)

Foundation Courses**110 Seeing and Knowing the Visual Arts (4) (2H)**

Introduction to perceiving and understanding meanings and organizational systems in traditional and contemporary visual arts in context of their social and cultural backgrounds.

112 Foundations Photography (4)

This studio/lecture course explores the photographic image as the basis for addressing issues related to all media from historical, critical, and diverse aesthetic perspectives.

113 Three-Dimensional Studies (4)

Studio projects in 3 dimensions exploring ordered and dynamic interactions of mass, plane, volume, and space. Introduction to processes and media. Not open to jr or sr art majors.

114 Digital Visualizing (4)

Studio Foundation course that explores art and design issues using digital equipment. Not open to jr. or sr. art majors.

116 Descriptive Drawing (4)

Fundamental issues and concepts of drawing. Varied projects to develop the ability to perceive, interpret, and record information through an awareness of the conceptual and technical basis of drawing.

117 Drawing: System and Color (4)

Prereq: 116. Investigation of drawing concepts and methods with emphasis on design systems and principles. Studio activities include creative problem solving and research involving color theory, function, and applications in the making of art.

118 Drawing: Process and Synthesis (4)

Prereq: 116. Drawing from methodological, conceptual, and metaphorical points of view. Development of strategies for problem solving, building vocabulary, experimenting, and expanding concepts of drawing.

211 Studio Concepts (4)

Prereq: 112, 113, 116. A studio course with an emphasis on the conceptual activity of art making. An introduction to a variety of methodologies for developing and executing ideas including research, assessment, analysis, and critical thinking. Particular attention given to conceptual structures and decision making processes.

Art Education**260 Foundations of Art Education (4)**

Explores the history, philosophy, and curriculum developments in art education. Intended for prospective majors in art education.

360A Visual Art Media for the Elementary Teacher (3)

Prereq: jr. Introduction to the visual arts through media processes, and developing critical skills in description, interpretation, and analysis of art works.

360B Visual Art Methods for the Elementary Teacher (3)

Prereq: jr, 360A or concurrent. Development of appropriate teaching methodologies and cross-disciplinary curriculum planning.

363 Technology in Art Education (5)

Prereq: 112, 113, 116. Intro to computer processes, software and peripheral devices commonly used in an art classroom. Focus is on studio production, instructional methods, and curricular issues pertaining to teaching K-12 computer art.

365 Alternative Artistic Practices (5)

Prereq: 112, 113, 116. This studio-based course investigates a range of alternative artistic practices, exploring related artistic materials and techniques.

366 Media Methods and Materials for the Art Education Classroom (5)

Prereq: 260. This course develops an understanding of traditional and nontraditional media, processes, techniques, and methods appropriate for the elementary and secondary school classroom.

461 Teaching Art in the Elementary School (6)

Prereq: 260, adm. to art education major. Focus on teaching methodologies, art materials, assessment and evaluation for elementary art education (grades K-6).

462 Teaching Art in the Secondary School (4)

Prereq: 260, 461, sr. art education major, and 22 hours of College of Education coursework. adm. to art education major. Prepares pre-service teacher for teaching in the secondary high school. Development of curriculum, teaching methodologies, and assessment. *Tier III equivalent for art education majors.*

467 Artistic Practice in the Public Sphere (4)

Prereq: ART 110, 112, 113, 116, 117, 118, 211. The purpose of this course is to introduce students to a range of issues surrounding artistic practice in the public realm, with a particular emphasis on participatory art pedagogy, e.g., the "artist-as-educator," cooperative learning, and collaborative art making.

Ceramics Studio Courses**221 Introduction to Ceramics I (5)**

Prereq: 112, 113, 116. Three-dimensional form exploration using additive construction processes. Simple Engobe, slips, and clay-body formulations accompany projects.

222 Introduction to Ceramics II (5)

Prereq: 112, 113, 116. Introduction to creative possibilities of potter's wheel. Functional projects using acquired decorative skills.

223 Introduction to Ceramics III (5)

Prereq: 221, 222. Increase in scale and scope of individual solutions. Intermediate throwing problems with the goal of developing skilled production abilities. Emphasizes utilitarian object making with a sensitivity toward quality of ware and value of the handmade object.

321A Intermediate Ceramics I (5)

Prereq: 223. Expanded 3-D investigation into ceramic as a material for contemporary personal expression. Scale and larger ceramic forms and techniques to achieve scale are introduced.

322A Intermediate Ceramics II (5)

Prereq: 321A. Exploration of alternative construction techniques in ceramics to foster expressive sophistication. Plaster and nonplaster molds are introduced as tools for ceramic construction.

323A Intermediate Ceramics III (5)

Prereq: 322A. Explores clay and glaze calculation techniques. Students investigate ceramic materials and firing processes relevant to producing ceramic art.

421A Advanced Ceramics (5)

Prereq: 323A. Development of skills and ideas to prepare for a career as a ceramic artist; personal research and development of techniques, ceramics history, and concepts are emphasized.

422A Ceramics Workshop (5, max 10)

Prereq: 421A. Traditional and nontraditional methods and concepts relating to the ceramic arts.

429 Ceramics Topics (3)

Prereq: major studio area School of Art. Individual exploration of technical and conceptual issues in ceramics.

495C Studio Practicum (3)

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors.

496C Ceramics (3)

Prereq: sr art major. Completion and installation of BFA Exhibition. Requirement for all studio majors.

Graphic Design Studio Courses**250 Design Principles (5)**

Prereq: 112, 113, 116. Investigation of the creation of meaning through visual form. Explores meaning through typography, image generation and manipulation, sign/symbol/icon, and visual contrasts. Emphasis on the use of digital graphic-generating technologies

251 Typography (5)

Prereq: 250. Introduction to the use of typography as symbolic form. Study of typography history, nomenclature, and meaning generation through letterform construction and digital composition.

254 Letter Form (5)

Prereq: 112, 113, 116. Lettering as design and communication element. History and techniques of lettering and calligraphy.

255 Form and Content (5)

Prereq: 251. Exploration of graphic image generation through the use of digital and non-digital methods. Conceptual thinking, problem solving, and the integration of meaning and content to the construction of visual form.

351 Graphic Design: Junior Studio (5)

Prereq: 10 hrs 200-level graphic design, portfolio review, and perm. Integrative use of digital design technologies to explore concepts of color, page layout, image construction, typography, problem solving, and meaning.

352 Graphic Design: Junior Studio (5)

Prereq: 351. Emphasis on typography as visual form and communication. Creation of multi-paged formats that study sequence, repetition, flow, graphic and semantic content, and the context of meaning.

353 Graphic Design: Junior Studio (5)

Prereq: 352. Emphasis on design and application of symbolic form, including logos, marks, icons, logo types and their use in the creation of meaning in design systems. Concepts of branding, manipulation, metaphor, and context will be explored.

450 Senior Studio Thesis Project (3)

Prereq: sr only, art major. Preparation for senior presentation and portfolio (not a studio course).

451 Graphic Design: Senior Studio (5)

Prereq: sr graphic design major and perm. Emphasis on meaning construction through "personal voice," exploration of experimental image making and typographical design. Examination of the public/private in the presentation of graphic design solutions.

452 Graphic Design: Senior Studio (5)

Prereq: 451 or perm. Design problems carried through all professional stages. Examination of design in context of various applications.

453 Graphic Design: Senior Studio (5)

Prereq: 452 or perm. Emphasis on individual problems and individual professional orientation. Portfolio preparation and presentation. Production of brochure and preparation of resume.

459 Graphic Design Topics (3)

Prereq: 451 or concurrent. Lecture/seminar course intended as a historical reference relating to the discipline. Theory and practice of the graphic design profession (not a studio course).

495D Studio Practicum (3)

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors.

496D Studio Project (3)

Prereq: sr art major. Completion and installation of BFA Exhibition. Requirement for all studio majors.

Painting Studio Courses**275A Basic Painting I (5)**

Prereq: 112, 113, 116. Development of formal, technical, and conceptual attitudes in painting.

276A Basic Painting II (5)

Prereq: 275A. Problems in painting, investigating recent developments and formal concepts.

278 Watercolor and Expanded Media I (5)

Prereq: jr or sr; 116 or concurrent. Techniques of transparent watercolor.

279 Watercolor and Expanded Media II (5)

Prereq: 278. Continuation of 278

375A Intermediate Painting I (5)

Development of personal goals and identification of issues with emphasis on individual, creative problems in painting. Not repeatable for credit.

376A Intermediate Painting II (5)

Prereq: 375A. Continuation of 375A. Not repeatable for credit.

377A Intermediate Painting III (5)

Prereq: 376A. Continuation of 376A. Not repeatable for credit.

378 Figure Painting (5)

Prereq: 118, 276A. Painting from model.

475A Advanced Painting I (5)

Prereq: 377A and painting major. Advanced problems in painting.

476A Advanced Painting II (5)

Prereq: 475A and permission. Continuation of 475A

477A Advanced Painting III (5)

Prereq: 476A and permission. Continuation of 476A

495P Studio Practicum (3)

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors

496P Studio Project (3)

Prereq: sr art major. Completion and installation of BFA Exhibition. Requirement for all studio majors.

Photography Studio Courses**281 Photography I: Black and White (5)**

Prereq: 112, 113, 116. Introduction to black and white photographic processes and materials, and to photographic history, criticism, and conceptual practice.

282 Photography II: Color (5)

Prereq: 281. Introduction to color negative materials and processes.

283 Photography III: Digital (5)

Prereq: 281. Students develop conceptual, aesthetic, and technical control of their chosen materials.

380 Photography Topics (3)

Prereq: photography major, jr. Critical review of historical as well as current issues in photography (not a studio course).

381 Photographic Arts I (5)

Prereq: 283, successful portfolio review. Application of contemporary monochrome materials to selected range of problems within discipline.

382 Photographic Arts II (5)

Prereq: 283, successful portfolio review. Application of series and sequential imagery to expression in photography.

383A Photographic Arts III (5)

Prereq: 283, successful portfolio review. Experimental methods and materials (gum bichromate, magazine lifts, photo montage, quickproof, 3-color overlays, Kodolith, and multiple printing).

384 Photographic Arts IV (5)

Prereq: 283, successful portfolio review. Sensitometric control of color printing processes, dye transfer, color separation, and masking.

481A Advanced Photographic Arts I (5)

Prereq: 383A. Individual problems and seminars.

482 Advanced Photographic Arts II (5)

Prereq: 481A. Individual problems and seminars.

483 Advanced Photographic Arts III (5)

Prereq: 482. Individual problems and seminars.

495F Studio Practicum (3)

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors. Tier III equivalent course.

496F Studio Project (3)

Prereq: sr art major. Completion and installation of BFA Exhibition. Requirement for all studio majors. Tier III equivalent course.

Printmaking Studio Courses**240 Monotype (5)**

Prereq: ART 112, 113, 116. Introduction to the printing process of monotype. Emphasis on generation of imagery, layering information, and experimenting with color and markmaking.

241 Lithography (5)

Prereq: 112, 113, 116. Introduction to basic lithographic drawing and printing. Emphasis on application of techniques to image making.

242 Etching (5)

Prereq: 112, 113, 116. Introduction to basic techniques of intaglio printmaking, including etching, dry-point, aquatint, and color printing. Emphasis on application of techniques to image making.

247 Relief Printing (5)

Prereq: 112, 113, 116. Basic techniques of relief printing from wood, metal, and assembled plates in both black and white and color. Emphasis on application of techniques to image making.

248 Serigraphy (5)

Prereq: 112, 113, 116. Basic techniques of screen printing including hand-cut stencils, photographic stencils, and multicolor printing. Emphasis on application of techniques to image making.

341 Prints (5, max 15)

Prereq: 5 hrs of 200-level printmaking courses. Supervised studio experience in printmaking media of student's choice (intaglio, lithography, relief, and/or serigraphy); includes demonstrations and lectures on related topics. Emphasis on development of techniques and concepts of printmaking.

345 Papermaking (5)

Prereq: ART 118. Papermaking language, history, and application as it relates to two-dimensional art works, books, and three-dimensional constructions.

346 Art on Computers (5)

Prereq: ART 118, Jr or Sr. Introduction of the Macintosh computer, providing experience in the computer's capability to design and to generate visual art images.

347 Print Topics (5, max 15)

Prereq: perm. In-depth view of historical topics and activities involving contemporary issues in the field of printmaking.

441 Prints (5, max 15)

Prereq: 15 hrs, 300L. Emphasis on personal and professional development in printmaking.

442A Print Workshop (5, max 10)

Prereq: 441. Emphasizes the studio development of the individual student and the student's preparation of a professional portfolio.

495M Studio Practicum (3)

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors.

496M Studio Project (3)

Prereq: sr art major. Completion and installation of BFA Exhibition. Requirement for all studio majors.

Sculpture Studio Courses**231A Sculpture I (5)**

Prereq: 112, 113, 116. Exploration of traditional and contemporary concepts of sculpture through lectures, projects, and critical discussions.

231B Sculpture II (5)

Prereq: 112, 113, 116. The second course for prospective sculpture majors with emphasis on basic sculpture skills.

232E Sculpture: Figure (5)

Prereq: 112, 113, 116. Introduction to sculpture, based upon human figure; includes slide presentations; expression through form and gesture emphasized.

233E Sculpture: Modeling (5)

Prereq: 112, 113, 116. Emphasizes modeling techniques reflecting the expansion of processes and materials in the discipline.

234E Sculpture: Casting (5)

Prereq: 112, 113, 116. Introduction to techniques of sculpture concentrating on bronze casting and its historical and aesthetic development.

235E Sculpture: Reductive (5)

Prereq: 112, 113, 116. Basic approaches to carving techniques in various materials.

331A Sculpture III (5)

Prereq: 231B; acceptance into a major area in the School of Art. Designed for development of the sculptural idea as a major. Not repeatable for credit.

331B Sculpture IV (5)

Prereq: 331A. Emphasis on the nontraditional aspects of sculpture making and individual development. Not repeatable for credit.

331C Sculpture V (5)

Prereq: 331B. Emphasis on aesthetic development; projects based on individual student interest. Not repeatable for credit.

431A Sculpture VI (5)

Prereq: 331C. For sculpture majors, focusing on contemporary issues in sculpture. Not repeatable for credit.

4318 Sculpture Workshop (5, max 10)

Prereq: 431A. Emphasizes each student's development as an artist.

4955 Studio Practicum (3)

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors.

4965 Studio Project (3)

Prereq: sr art major. Completion and installation of 8FA Exhibition. Requirement for all studio majors.

General Studio Courses**Drawing Sequence (drawing is not a major)****218 Figure Drawing I (5)**

Prereq: 118. (not offered every quarter) Drawing from model. Proportion, structure, and form. Various media.

311 Drawing Media (4)

Prereq: 218. An exploration of traditional and nontraditional techniques and media.

318 Figure Drawing II (5)

Prereq: 218. (not offered every quarter) Approach to personal imagery in drawing. Individual response to traditional and modern drawing attitudes.

319 Intermediate Drawing (5)

Prereq: 318. (not offered every qtr) Continuation of 318.

418A Advanced Drawing (5)

Prereq: 319. (not offered every qtr) Continuation of 319.

Design Sequence**392D Letterpress and Bookmaking (5)**

Prereq: adm to major area School of Art. An introduction to handprinting techniques utilizing the letterpress with emphasis on the design and making of the handmade book.

393D Text and Image in Graphic Design (5)

Prereq: adm to major area School of Art. Concentration on text as it relates to graphic design imagery. This course will identify the individual's perception of typography as text and further enhance that level through customized exercises related to the individual's discipline.

395D Media (5)

Prereq: art major or perm. Time-based study of motion, light, and sound with emphasis on Web communication and design. Development of working methodologies specific to the non-linear construction of information for Web-based media technologies.

Additional Art Courses**300J Criticism in the Visual Arts (4) (1J)**

Prereq: AH 211, 212, 213 or perm. Tier I composition class designed to encourage understanding of historical perspectives in critical writings on visual arts. Students will read and examine written criticism; develop research, grammar, and editing skills; and write analytical descriptive essays on appropriate visual arts subjects.

393A Autopsical Art (3)

This nontraditional course provides the University student with a unique experience in understanding and developing aesthetic alternatives.

490A Seminar in the Visual Arts (3)

Prereq: sr and perm. Interdisciplinary course designed to deal with professional issues beyond

those pertinent to specific media, to enrich experience in various areas and professional levels, and to permit exchange of information on current issues in art world. Not repeatable for credit.

491A Art in Your Life (3)

Nontraditional course designed to provide an alternative approach to the thinking and making of art

497 Independent Study—Projects (1–5, max 5)

Prereq: art major, sr, and perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Requires permission of faculty member prior to registration. Credit as non-studio elective only.

498 Independent Study—Readings (1–5, max 5)

Prereq: art major, sr, and perm. Reading and research to studio investigations. Intended for work that is not a reasonable part of regular studio courses. Credit as elective only.

Regional Campus Offerings**115A Introduction to Painting (4)**

Enrollment at regional campus only. Credit as free elective only, not studio.

125 Introduction to Ceramics (4)

Enrollment at regional campus only. Credit as free elective only, not studio.

141 Introduction to Printmaking (4)

Enrollment at regional campus only. Credit as free elective only, not studio.

151 Introduction to Graphic Design (4)

Enrollment at regional campus only. Credit as free elective only, not studio.

Art History (AH)**211 History of Art (4) (2H)**

Survey of Western painting, sculpture, and architecture from prehistoric through early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 211.

212 History of Art (4) (2H)

Continuation of 211 from early Medieval art in Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 212.

213 History of Art (4) (2H)

Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 213.

214 History of Non-Western Art (4) (2C)

Survey of non-western art traditions from Asia, the Americas, Africa, and the Pacific region from ancient times to present.

237 Photo History Survey (4)

Historical development of photography from its inception to present including comprehensive study of artistic and technical development of major photography movements.

320 Greek Art (4)

Prereq: jr or perm. Art of ancient Greece.

321 Roman Art (4)

Prereq: jr or perm. Art of ancient Rome.

322 Medieval Art (4)

Prereq: jr or perm. Art of Europe from age of Constantine to art of Giotto.

323 Italian Renaissance Art (4)

Prereq: jr or perm. Art of 15th century Italy.

324 Northern Renaissance Art (4)

Prereq: jr or perm. Art of Northern Europe in 15th and 16th centuries.

326 Baroque and Rococo Art (4)

Art of Europe in 17th and 18th centuries.

327 Art of the 19th Century (4)

Prereq: jr or perm. European painting and sculpture from French Revolution through Symbolism.

329 American Art History (4)

Prereq: jr or perm. Art in U.S. from Colonial period.

330 Asian Art History (4) (2C)

Prereq: jr or perm. Art of India, China, and Japan.

331 Pre-Columbian Art (4) (2C)

Prereq: jr or perm. Preconquest art of Mexico, Central and South America.

332 West African Art (4)

Prereq: jr or perm. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of West Africa.

334 Ancient Near Eastern Art (4)

Prereq: jr or perm. Motifs and monuments of Egypt, Mesopotamia, Assyria, and Babylonia.

336 Modernist Theory and Criticism (4)

Prereq: 211, 212, 213. An overview of the major theoretical and critical positions on the visual arts in modernism, especially from the late 19th century to the later 1970s. Topics include formalism, expressionism, and the relationship of art to nature and society.

341 History of Chinese Art (4)

Prereq: jr. A survey of the major trends in the arts of China (from the Neolithic period to the 19th century) from a thematic point of view.

342 Art of 20th Century China (4)

Prereq: jr. The course will explore the ways in which Chinese artists of the 20th century have defined modernity and their tradition against the complex background of China's history.

343 History of Japanese Art (4)

Prereq: jr. A survey of the visual arts of Japan, prehistory through the 19th century, in both chronological and thematic approaches.

350 Principles of Architecture (4)

Introduction to styles, theories, and structural principles of architecture.

351 Ancient Architecture (4)

Prereq: jr or perm. Survey of architectural monuments and their historical settings in Near East, Egypt, Greece, and Rome.

352 Medieval Architecture (4)

Prereq: jr or perm. Survey of architectural monuments and their historical setting in early Christian, Byzantine, Romanesque, and Gothic periods.

353 Renaissance and Baroque Architecture (4)

Prereq: jr or perm. Survey of architects and monuments from 15th through 18th century.

354 19th and 20th Century Architecture (4)

Prereq: jr or perm. Survey of architects and monuments from historical revival styles through recent stylistic trends.

460 Methods in Art History (4)

Investigation of various methodological approaches to study of art.

425 Art of High Renaissance and Mannerism (4)

Prereq: sr or perm. Art of 16th century Italy.

428 Modernist Art (4)

Prereq: sr or perm. Art of Europe from 1880 to 1945.

433 Central African Art (4)

Prereq: sr or perm. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of Central Africa.

435 Art Since 1945 (4)

Prereq: sr or perm. Selected studies in visual arts covering developments after 1945, such as Abstract Expressionism, Minimalism, Pop, Post-Modernism, performance, video, electrostatics, etc., to the present. This is a lecture course.

438 Contemporary Art Theory and Criticism (4)

Prereq: 211, 212, 213. An overview of the major theoretical and critical positions on the visual arts and contemporary culture. Topics include semiotics, poststructuralism, feminism, simulation, and theories of cultural and ethnic difference.

440 Selected Topics in Art History (4)

Prereq: sr or perm. Selected problems in the visual arts, such as interdisciplinary topics, cross-cultural studies, thematic treatments, technical investigations, and approaches to material. Content will vary with each offering of this course. Topic for course will be published during the quarter previous to being offered

460 Methods in Art History (4)

Investigation of various methodological approaches to study of art

470 Introduction to Museum Studies (4)

Prereq: jr. or sr. An introduction to museum history and various social, economic, and intellectual functions of museums

497 Independent Study—Projects (1-6)

Prereq: major, sr, and perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Credit as elective only.

498 Independent Study—Readings (1-6)

Prereq: major, sr, and perm. Reading and research in art history that cannot reasonably be made within regular course structures. Credit as elective only.

Astronomy

See Physics and Astronomy.

Aviation (AVN)

Contact the Aviation Department for a current list of course fees and detailed course descriptions. Due to FAA rules changes, all flight courses may vary from these descriptions. Note that course fees for flight courses are based on minimum completion times approved by the FAA and are subject to change. As flying is a skill, the actual course cost may vary and will be dependent upon the student's abilities, knowledge, and effort put toward acquiring pilot certification. All flight courses are offered in the fall, winter, spring, and summer quarters.

100 Introduction to Aviation (4)

(fall, winter, spring) Survey of civil aviation. Overview of aviation history, general aviation, types of air carrier aircraft, and the importance of the air transportation industry. Develops understanding of an airline flight from takeoff to landing.

110 Basic Aeronautics (4)

(fall, winter, spring) 40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction, and performance data to meet requirements of private pilot's written exam. 2 lec.

240 Private Pilot Flight Course (4)

Prereq: FAA written passed or perm. Meets requirements for private pilot's certificate. 1 lec, 3 lab. Course fee.

240A Introduction to Flight (2)

Prereq: 110 and perm. Dual and solo flight instruction in fundamentals of flight. Course fee.

240B Introduction to Flight II (1)

Prereq: perm. Dual and solo flight instruction. Introduction to cross-country navigation and use of radio aids to navigation. Course fee.

240C Introduction to Flight III (1)

Prereq: perm. Dual and solo flight instruction in cross-country navigation by pilotage, dead reckoning, and use of VOR, NDB, and HSI. Flight test preparation for private pilot certification included. Course fee.

300 Aviation Laws and Regulations (4)

(spring) Student obtains knowledge, background, and understanding of aviation laws and regulations. Emphasis will be placed upon areas of legal concepts of operation, contracts, insurance and liability, regulatory statutes, and case law. In addition, various regulations of FAA, DOT, NTSB, and ICAO will be covered. 2 lec.

305 Aviation Weather (4)

Prereq: 110. (winter) Identification of aviation

weather hazards that affect pilots, dispatchers, and airport and airline management; familiarization with aviation weather products and providers; application of weather interpretation to flight scenarios.

310 Advanced Aeronautics (4)

Prereq: 110. (fall, winter) 40 hrs ground instruction covering advanced aerodynamics, radio navigation, FAA regulations, aircraft construction and performance, theories of flight, weight and balance, and instruments to meet requirements of commercial written exam. 2 lec.

315 Aviation Safety (4)

Prereq: 110. (fall) Overview of aviation safety from management and pilot perspectives, including fundamental aviation safety concepts, risk theory and management, safety terms, prevention methodology, effective safety program organization, human factors, inspection programs, data and analytical information systems, and regulatory requirements.

320 Advanced Aircraft Systems (4)

Prereq: 310 or Comm. Pilot Cert. (winter only) In-depth study of simple and complex aircraft fuel, electrical, hydraulic, and environmental systems. 2 lec.

340 Cross-Country Flight (4)

Prereq: private pilot's certificate. Flight training consisting of cross-country flights and commercial maneuvers. 6 lab. Course fee.

350 Instrument System Regulations and Procedures (4)

Prereq: 110. (fall, spring) 40 hrs of ground instruction covering various navigation systems and procedures, aircraft radios and communications, instrument flying, and air traffic control procedures. Includes functions of ATC centers, approach control, towers, and flight service stations. FAA regulations included. Meets all requirements for instrument pilot written exam. 2 lec.

360 The National Airspace System (4)

Prereq: 110. (winter only) Covers topics such as procedures used to separate aircraft, flow control, ATC phraseology, and navigation in the national airspace system.

390 Airline Operations and Management (4)

Prereq: 110. (fall) To give a broad understanding of the air transportation industry and the major management functions with an airline. Topics cover economics of airlines; managerial aspects; international aviation; career planning; and general aviation.

400 Instrument Flight (4)

Prereq: Private pilot cert. and FAA written passed. Instruction in flight by sole reference to instruments. Preparation for instrument rating. 1 lec, 6 lab. Course fee.

405 Advanced Cross Countries (4)

Prereq: 400. 46 hours of flight instruction consists of dual and solo cross-countries and review of commercial maneuvers plus 8 hours of FTD. 1 lec, 6 lab. Course fee.

410 Fundamentals of Aviation for Teachers (4)

Prereq: 310. Comprehensive course covering aeronautical knowledge required of private pilot: navigation, weather, federal regulations, theory of flight, aircraft performance, radio communications and navigation, and fundamentals of instruction for teachers of aviation ground instruction courses.

415 Instrument Proficiency Check (1)

Prereq: Instrument Rating. Provides review of instrument procedures and FTD training to meet FAA current requirements. Course fee.

420 Commercial Flight (4)

Prereq: 405 and FAA written passed. Flight instruction including 10 hrs in complex airplane. Preparation for single commercial certification. 1 lec, 6 lab. Course fee.

430 Multi-Engine Flight Course (4)

Prereq: pilot's certificate and perm. 10 hrs of procedures with both engines operative, with 1 engine inoperative (feathered), single engine speeds, effects of airplane configuration on engine-out performance. Enroute operations, single

engine approaches and landings. 1 lec, 4 lab. Course fee.

435 Flight Engineer (4)

Prereq: Commercial pilot's certificate. Comprehensive course covering aeronautical knowledge acquired for the flight engineer rating, including federal aviation regulation, aerodynamics, meteorology, aircraft manuals, and aircraft systems.

440 Flight Instructor Ground Instruction (4)

Prereq: commercial pilot's certificate or perm. (spring) 40 hrs ground instruction on FAA regulations and publications, weather, advanced flight computer operations, radio navigation, advanced aircraft and engine performance, and fundamentals of instructing. Covers requirements for flight instructor written exams. 2 lec.

445 Flight Instructor Course (4)

Prereq: FAA written passed, commercial pilot's certificate. Review of commercial course with emphasis on how to instruct and analysis of maneuvers. 1 lec, 6 lab. Course fee.

450 Instrument Instructor Ground Instruction (3)

Prereq: 350. 30 hrs review of instrument course with emphasis on how to instruct instrument flying. Covers requirements for instrument written exam. 2 lec.

455 Instrument Instructor Flight Course (4)

Prereq: FAA written passed, flight instructor certificate. Review of instrument course with emphasis on how to instruct on instruments. 1 lec, 3 lab. Course fee.

460 ATP Ground Instruction (4)

Prereq: FAR 61.153. Forty hours advanced course placing major emphasis on specific requirements and duties of airline transport pilots in accordance with Federal Aviation Regulations. Provides aeronautical requirements for airline transport pilot written exam. 2 lec.

462 Multi-Engines Cross Countries (1)

Prereq: 430 and major. Multi-engine cross country flight into various controlled airports utilizing CRM techniques. Course fee.

465 Flight Instructor Operations—Multi-Engine (2)

Prereq: flight instructor certificate with multi-engine rating and perm. Flight instruction in multi-engine operations and instruction practices, analysis of maneuvers, and practice teaching of multi-engine procedures; plus 1 hr led/disc per wk. Course fee.

470 ATP Multi-Engine Flight Course (2)

Prereq: FAA commercial pilot's certificate with multi-engine and instrument ratings, FAA ATP written passed, and perm. Comprehensive course covering aircraft systems, weight and balance, FARs, and multi-engine aerodynamics. Flight including proficiency maneuvers and instrument procedures. Course fee.

475 Internship in Aviation Operations (1-15)

Prereq: written perm of dept. chair. (fall, winter, spring, summer) Internship program in selected fields of aviation under direction of faculty member.

480 General Aviation Operations and Management (4)

Prereq: 110. (spring) A comprehensive study of general aviation. Provides overview of general aviation history and scope, general aviation marketing, FBO operations and management, and an in-depth study of corporate and business aviation.

485 Advanced Aircraft and Flight Crew Operations (5)

Prereq: AVN 400, AVN 420, AVN 430. (spring) Introduction to advanced flight crew concepts and procedures with emphasis on professional pilot development, safety standardization, and crew resources management (CRM) techniques. Selected technical subjects include turbine aircraft systems training, high altitude/pressurized aircraft qualification, and simulated industry-oriented flight training (air carrier instrument approach procedures, interview and training/qualification simulator profiles, and Line-Oriented

Flight Training—LOFT). The course includes approximately 40 hours of lectures, 1 hour of flight instruction in turbine aircraft, and 12 hours of simulator instruction. Course fee.

486 Principles of Corporate Flight Operations (4)

Prereq: AVN 485. Corporate pilot standards and practices with in-depth review of safety, standardization, and CRM concepts as applied to corporate flight operations. The course will also cover aircraft systems, preflight, performance calculations, weight and balance, and emergency procedures in various piston and turbo-prop aircraft.

487 Corporate Flight Operations Internship (2-6)

Prereq: AVN 486; written perm. of dept. chair. This course is an internship working for Ohio University Air Transport Service (A.T.S.). Duties include flying as co-pilot in corporate flight operations in turbo-prop multi-engine aircraft, as well as ground duties as part of a corporate flight management team.

489 Transition to Aviation Industry (2)

Prereq: AVN major; jr or sr. (winter) Discussions and exercises to improve communication and networking skills while increasing knowledge of student's area of focus in the aviation industry. Topics include resume writing, interviewing, goal setting, report writing, presentation skills, public relations, and professional responsibilities.

Bacteriology

See Biological Sciences.

Behavior

See Biological Sciences or Psychology.

Biological Sciences

Biological Sciences (BIOS)

100 The Animal Kingdom (4) (2N)

For non-majors. No credit if BIOS 173. *P. Hassett*. Nonscience majors. A broad survey of all of the major groups of animals. Aspects of the biology, reproduction, ecology, and evolution of the animal phyla.

103 Human Biology I: Basic Principles (5) (2N)

Staff. Designed for nonscience majors. Humans as biological organisms: our origins, ecology, and inheritance; and functioning of our body systems. 5 lec.

109 Readings in Biology (2)

Prereq: concurrent enrollment in BIOS 170, 171, or 172. *L. DiCaprio, S. Simon Westendorf*. Small-group study and discussion of topics only peripherally covered in the BIOS 170 series. Taken concurrently with introductory biology, it provides an informal forum to read about, discuss, and present topics that go beyond the textbook.

110 Student Learning Community for BIOS 170 (1)

Prereq: concurrent enrollment in BIOS 170. *S. Simon Westendorf*. Small groups of students meet with a peer mentor to work on problem sets, readings, team-based learning projects to master the material in BIOS 170 and the scientific reasoning it requires.

130 Principles of Human Anatomy and Physiology I (5) (2N)

(Chillicothe, Lancaster, and Zanesville campus only) Introduction to the structure and function of the human body in the study of cells, tissues, and the integumentary, skeletal, and muscular systems. Cat used for dissection. 3 lec, 4 lab.

131 Principles of Human Anatomy and Physiology II (5) (2N)

Prereq: BIOS 130. (Chillicothe, Lancaster, and Zanesville campus only) Introduction to the structure and function of the human body in the study of the digestive, urinary, reproductive, cardiovascular, lymphatic, respiratory, endocrine, and nervous systems. Cat used for dissection. 3 lec, 4 lab.

170 Introduction to Zoology (5)(2N)

Prereq: minimum ACT composite score 23 or SAT total 1060 or C- or better in CHEM 121 or CHEM 150 or CHEM 151. *R. Colvin, L. DiCaprio, S. Simon Westendorf*. Cellular and molecular biology. Designed for science majors and preprofessional students. Introduction to the chemistry of life, cell structure and function, and the principles of inheritance. Laboratories enhance lecture coverage of major topics with emphasis on experimental design and critical analysis. Credit not allowed for both 170 and any of the following: BIOL 101, PBIO 110, PBIO 114 4 lec, 3 lab.

171 Introduction to Zoology (5) (2N)

Prereq: C- or better in BIOS 170; or PBIO 110 or 114. *H. Burstein, L. DiCaprio, S. Edinger, R. Rakowski*. Animal organ systems. Designed for science majors and preprofessional students. Introduction to multicellular life, organ systems, anatomy, physiology, and animal development; emphasis is on comparative strategies within the animal kingdom. Laboratories enhance lecture coverage of major topics with dissections and microscopy 4 lec, 3 lab.

172 Introduction to Zoology (3) (2N)

Prereq: BIOS 171, C- or better. *K. Cuddington, W. Roosenburg*. Ecology and evolutionary biology. Designed for science majors and preprofessional students. Introduction to the principles of evolution, ecology, and behavior. 3 lec.

173 Introduction to Zoology (1) (2N)

Prereq: BIOS 171, C- or better; or PBIO 111 or 211. *M. Nossek*. Laboratory survey of the major phyla of the animal kingdom to reveal evolutionary relationships and structural and functional characteristics. Laboratory includes microscopy and dissection. Credit not allowed for both 100 and 173. 2 lab.

201 Elementary Microbiology (4) (2N)

Prereq: one qtr CHEM and BIOS or PBIO. (Chillicothe and Zanesville campus only, spring) Medical microbiology; topics include microbial and fungal growth, metabolism, and genetics; antimicrobial chemotherapy; principles of immunology, microorganisms, and infectious diseases. 3 lec, 2 lab.

202 The Biology of Sex Differences (4) (2N)

Genetic, hormonal, and environmental influences that affect the development of sex differences. Lecture, discussion, and group report formats. (Eastern Campus only)

203 Human Biology II: Essentials of Anatomy and Physiology (4) (2N)

Prereq: For non-majors. BIOS 103 or 171. No credit if BIOS 301, or 301A, or 302. *E. Peterson, M. Rowe*. For non-majors. Introduction to functional anatomy of the human body for nonmajors. Emphasis is on the musculoskeletal system and its control by the nervous system. Students will learn how the skeleton, major muscle groups, and nervous system work together during human behaviors such as posture, locomotion, control of the hands, respiration. 4 lec.

204 Human Biology II Laboratory: Functional Anatomy (1) (2N)

Prereq: For non-majors. BIOS 203 or concurrent. *R. Carr*. Laboratory introduction to functional human anatomy. Emphasis is on the musculoskeletal and other major organ systems: nervous, circulatory, respiratory, and gastrointestinal systems. Students will explore the major patterns of the musculoskeletal and other organ systems through practical exercises with joint-muscle and tissue organ relationships using articulated skeletons, surface anatomy, and dissection. 3 lab.

205 Human Biology: Sex and Reproduction (3) (2A)

For non-majors. *S. Simon Westendorf*. Development, structures, and function of male and female human reproductive systems from conception to death, including behavior. Emphasis on current state of knowledge and relevance to topical health and social issues. Lecture and discussion format. 3 lec.

206 Drugs and the Brain (4) (2N)

For non-majors. Prereq: BIOS 103 or 171 or PSY 101. *S. Hooper*. The brain creates behavior in part via multiple chemical messenger (neurotransmitter) systems that serve specific functions such as mood alteration and arousal. Recreational and psychoactive medical drugs

work by mimicking these natural messenger systems, and thus help elucidate the behavioral functions of different neurotransmitter classes. This course will review nervous system structure and chemical signaling pathways and then survey the major classes of psychoactive drugs, including alcohol, opium, cocaine, amphetamines, nicotine, caffeine, marijuana, and the hallucinogens, and the antidepressants, paying particular attention to the biological bases of their effects. 4 lec.

210 Exploring Animal Behavior (4) (2N)

For non-majors; no credit if BIOS 473. *M. Morris*. Humans have always been interested in animal behavior. During early history, much of that interest was based on practical need. Today, studies of animal behavior help us understand our own behavior as well as our interactions with other animals. In this course we explore both how and why some animals migrate, live in groups, fight, have mating preferences, provide parental care and communicate. Lectures will address some controversial issues in animal behavior, such as "do animals have emotions?" This course will provide a new way of thinking about, observing and interacting with animals. 4 lec

220 Conservation and Biodiversity (4) (2A)

For non-majors. No credit if BIOS 481. *M. Guren, D. Miles*. Introduces the student to the modern field of conservation biology and the role of genetics, ecology, life history, and biogeography in the preservation and maintenance of biodiversity. Case studies of endangered animal and plant species will be highlighted. 4 lec.

221 Microbes and Humans (4) (2A)

For non-majors *K. Mammone*. A good introduction to microbiology for allied health fields. Introduction to the history and life of microorganisms with an emphasis on bacteria and viruses. Discussion of the interaction between humans and microbes including vaccines, antibiotics, biotechnology, immunity, disease transmission and food spoilage. Overview of infectious diseases affecting human organ systems. Application of concepts through readings on current topics. 4 lec.

222 Microbes and Humans, Laboratory (2) (2A)

Prereq: BIOS 221 or concurrent. *J. Cunningham*. Characteristics and activities of microbes of special relevance to humans' welfare and those affecting maintenance of environmental quality. 4 lab.

225 Genetics in Human Society (4) (2N)

For nonmajors; no credit if BIOS 325. *T. Sugiyama*. Basic principles of inheritance in humans. Normal and abnormal chromosome constitutions, gene-protein interrelationships, and factors that cause mutations of genes and chromosomes. Significance of genetics in human society. 4 lec.

235 Insects, Science, and Society (4) (2A)

For non-majors. No credit if BIOS 435. *K. Johnson*. This course will introduce non-majors to fundamental concepts of biology using insects as examples. Students will gain an appreciation of how insects have shaped human culture and history for thousands of years, and how the scientific understanding of insect behavior, physiology, evolution and ecology is applied to solve real world problems. Contemporary issues, ranging from mosquito born-diseases, genetically modified crops and insecticide resistance, to killer bees, the silk industry and insects in forensic investigations will be used to focus discussions and improve scientific literacy. 4 lec.

275 Ecology in the 21st Century (4) (2N)

For non-majors. No credit if BIOS 375. *S. Reilly*. Introductory study of the natural environment and relations of organisms to each other and their surroundings. Individual, population, and community and global dynamics are considered in natural and human influenced environments to improve ecological literacy about how the natural world works. 4 lec.

297T Zoology Tutorial (1-15)

Prereq: perm. *S. Tanda*. Special courses offered to students in Honors Tutorial program.

298T Zoology Tutorial (1-15)

Prereq: perm. *S. Tanda*. Continuation of 297T. See 297T for description.

299T Zoology Tutorial (1-15)

Prereq: perm. *S. Tanda*. Continuation of 297T-298T. See 297T for description.

300 Anatomy and Histology (6)

Prereq: C- or better in BIOS 171, or perm; not open to fr. *Hikida*. Gross and microscopic structure of the basic tissues and organ systems of the human body. Lab incorporates microscopy and dissection. 4 lec, 4 lab.

301A Human Anatomy (3)

Prereq: C- or better in BIOS 171, not open to fr, no credit if BIOS 301 or 302. *J. Zook*. Structure and general function of all body systems with emphasis on human musculoskeletal system and structure/function relations. 3 lec.

301B Human Anatomy Lab (2)

Prereq: 301A or concurrent. No credit if BIOS 301 or 302. *J. Zook*. Hands-on experience working with human anatomy at the level of tissues, organs, and body systems. Emphasizes a basic knowledge of anatomical terminology and the structural basis of body functions. Lab and small group exercises are organized around human prosected/plastinated specimens, regional surface anatomy, musculoskeletal modeling and sketching assignments. To gain an appreciation of basic tissue properties and relationships, labs include direct experience with dissection. 4 lab.

303 Comparative Vertebrate Anatomy (6)

Prereq: C- or better in BIOS 172, 173, not open to fr. *R. Carr, S. Reilly*. Comparative study of the anatomy of vertebrates. Structure, function, and evolution of the vertebrate body forms and organ systems are compared. Extensive lab work covers each of the major classes of vertebrates and includes dissection. 4 lec, 6 lab.

311 Computer Simulation in Biology (4)

Prereq: MATH 263B or MATH 266B. *W. Holmes*. Introduction to computer modeling and simulation in biological research. Designed to illustrate the power and limitations of computer simulation by having students code (in MATLAB) simulation programs for a number of different biological phenomena. Quantitative models used include models of enzyme kinetics, population biology, population genetics, diffusion models, and compartmental models in physiology. 3 lec, 2 lab.

316 Biogeography (4)

Prereq: BIOS 173 or GEOG 101, no credit if GEOG 316. *J. Dyer*. An examination of historical, environmental, and biotic influences that shape spatial patterns of plant and animal distributions and community structure in the contemporary landscape. (Cross listed with GEOG 316). 4 lec.

320 Fundamentals of Animal Cell Biology (4)

Prereq: C- or better in BIOS 325. *J. Duerr, T. Sugiyama*. Comprehensive introduction to the structure and function of animal cells, emphasizing fundamental principles and concepts of modern cell biology and the dynamic nature of cells and their components. 4 lec.

321 General Microbiology (5)

Prereq: 10 hrs BIOS, PBIQ. *J. Cunningham, L. LaPierre*. Overview of bacteria, protista, viruses and their relationship to us and our environment. Lab training in common microbiological methods. 3 lec, 4 lab.

322 Animal Cell Biology Laboratory (2)

Prereq: BIOS 320 or concurrent. *J. Duerr*. Laboratory exercises designed to illustrate basic techniques in molecular and cell biology, including electrophoresis and immunohistology. 4 lab.

325 General Genetics (5)

Prereq: C- or better in BIOS 172 and 173, or PBIQ 211. Credit not allowed for both BIOS 225 and 325. *S. Tanda, M. White*. Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

326 Laboratory Genetics (3)

Prereq: BIOS 325. *D. Holtschu*. Experiments in basic bacterial, yeast, and *Drosophila* molecular genetics. Experiments include site-directed mutagenesis, yeast 2-hybrid analysis, and transposon mutagenesis in *Drosophila*. Recombinant DNA techniques designed to familiarize the student with current laboratory procedures in molecular genetics. 6 lab.

330 Principles of Evolution (4)

Prereq: C- or better in BIOS 325, and 320 or concurrent. *M. Morris*. Study of the microevolutionary and macro-evolutionary

processes, and patterns that explain and characterize the history and diversity of life on earth. 4 lec.

333 Neural Basis of Behavior (3)

Prereq: C- or better BIOS 172, 173. *R. DiCaprio, S. Hooper*. Overview of how animal nervous systems generate behavior. The first half introduces brain and neuronal physiology and anatomy, sensory and motor systems, sensory-motor integration, and motivational states. The second half uses exemplar neuroethological case studies to integrate this information. 3 lec.

342 Principles of Physiology I (3)

Prereq: PHYS 202 or 252 or 262 concurrent, CHEM 153; C- or better in BIOS 171. *M. Chamberlin, D. Lee*. Function of animal cells and organs emphasizing the physical and chemical principles underlying physiological processes. Focus on chemical messengers, metabolic processes, membrane properties of excitable and nonexcitable cells, and muscle function. 3 lec.

343 Principles of Physiology II (3)

Prereq: C- or better in BIOS 342. *D. Lee, K. Johnson*. Physiological processes underlying circulation, gas exchange, water and solute balance, and temperature relations. 3 lec.

345 Human Physiology (4)

Prereq: C- or better in BIOS 300 or (301A and B) or (203 and 204). Not open to fr. *R. Gilders, C. Schwirian*. Covers basic cell physiology through most organ systems, focusing on humans. Emphasis on physiological regulation and physiological responses to various stresses. 4 lec.

346 Human Physiology Laboratory (3)

Prereq: BIOS 345 or concurrent. *C. Schwirian*. Lab experiences designed to complement material covered in 345. Lab introduces students to physiology-related skills and techniques used in both research and clinical settings. 6 lab.

352 Biomechanics (4)

Prereq: C- or better in BIOS 301A and B; no credit if PESS 302. *S. Bullard*. Analysis of human motion based on anatomical, physiological, and mechanical principles. 3 lec, 2 lab.

354 Principles of Physiology Lab I (2)

Prereq: BIOS 342 or concurrent. *M. Chamberlin*. Laboratory exercises designed to illustrate the experimental basis of principles covered in 342. 4 lab.

355 Principles of Physiology Lab II (2)

Prereq: BIOS 343 or concurrent, and BIOS 354. *M. Chamberlin*. Laboratory exercises designed to illustrate the experimental basis of principles covered in 343. 4 lab.

364 Forensic Biology (4)

Prereq: C- or better in BIOS 171 and CHEM 351; forensic chemistry major. *S. Moody*. Provides experience in microscopic techniques; identification of hair, fibers, and bones; identification and grouping of blood; entomological and anthropological technologies in forensics; and identification of semen. 2 lec, 4 lab.

375 Animal Ecology (4)

Prereq: C- or better in BIOS 172 or PBIQ 111 or 211 and MATH 163A, 263A or 266A or concurrent. No credit for both 275 and 375. *W. Roosenburg*. An exploration of empirical and theoretical aspects of how animals interact with their environment. This mechanism-oriented class will evaluate ecological processes at the individual, population, community, and ecosystem levels. 4 lec.

376 Field Ecology (4)

Prereq: C- or better in BIOS 172 and 173. *G. Svendsen*. Quantitative analysis of field problems in ecology; consisting of design of field experiments and hypothesis testing, graphic and statistical analysis of data; interpretation of results and report writing. 1 lec, 6 lab.

382A Clinical Laboratory Observation (1)

Prereq: perm. *J. Cunningham*. Gives student opportunity to observe activities characteristic of clinical lab. Observations made in hospital setting so that, along with other background information provided, student may be better able to evaluate lab work as career choice.

384 Bioethics: Bioethical Problems in Biology and Medicine (5)

Prereq: 9 hrs BIOS. (Lancaster campus only) Ethical

problems arising from rapid advances in biological and biomedical research. Topics include: human experimentation, fetal research, informed consent, death with dignity, euthanasia, reproductive advances, sex control, test tube babies, surrogate mothers, public policy and bioethics, health care delivery, mental health, and genetic screening. 5 lec.

385 Microbial Ecology (3)

Prereq: BIOS 321. *P. Coschigano*. Examines the interactions of microorganisms with their biotic and abiotic surroundings, including interactions with plants, animals, other microorganisms, air, water, and soil. Additional topics include waste treatment, biogeochemical cycling, and biodegradation/ bioremediation. 3 lec.

390H Biology and the Future of Man (5)

Prereq: perm. (Lancaster campus only) Course covers human sexuality, physiological effects of environmental pollutants, drugs of abuse, and introduction to advances in biological technology that influence future of humans. 5 lec.

392 Topics in Zoology for Nonmajors (1-3, max 8)

Prereq: One course in BIOS or BIOC or PBIQ, and perm of specific instructor. Individual or small-group study, under supervision of instructor, of topics not otherwise available to undergrad students. Credit not applicable toward major and minor in biological sciences. Special registration with departmental secretary required.

397T Zoology Tutorial (1-15)

Prereq: perm. *S. Tanda*. Special courses offered to students in Honors Tutorial program.

398T Zoology Tutorial (1-15)

Prereq: perm. *S. Tanda*. Continuation of 397T. See 397T for description.

399T Zoology Tutorial (1-15)

Prereq: perm. *S. Tanda*. Continuation of 397T-398T. See 397T for description.

403 Teaching Vertebrate Anatomy (3-4)

Prereq: perm. *R. Carr, S. Reilly, J. Zook*. Students receive advanced training in vertebrate anatomy via lectures and dissections and give presentations while assisting in teaching vertebrate anatomy courses. 1 lec, 6-8 lab.

407 Developmental Biology (4)

Prereq: BIOS 325. *S. Tanda*. Mechanisms of animal development at tissue, cellular, and molecular levels of organization, with emphasis on experimental approaches. This course integrates genetics, cell biology, and molecular biology. 4 lec.

413 Human Neuroscience (4)

Prereq: C- or better in BIOS 203 or 300 or 301 or 301A or 303 or perm. *E. Peterson, M. Rowe*. Basic structure and function of the mammalian nervous system. Special attention is given to the human brain and to human brain dysfunction. Students complete a human brain dissection in the laboratory component of the course. 3 lec., 2 lab.

414 Molecular and Cellular Neuroscience (4)

Prereq: C- or better in BIOS 342 or 345; and MATH 263B or 266B. *R. Colvin*. Introduction to the molecular and cellular basis of the functioning of the nervous system. Topics include morphology, excitable properties of neurons, mathematical modeling, synaptic function, molecular biology, signal transduction, gene expression, and neuronal development. 4 lec.

415 Neural Basis of Sensation and Movement (4)

Prereq: C- or better in BIOS 414 or perm. *E. Peterson, M. Rowe*. Sensory system function and the neural control of movement in vertebrates; how molecules, cells, and circuits of nervous systems give rise to sensation (vision, hearing, touch, smell, etc.) and to basic behaviors (locomotion, posture, orientation of head and eyes toward sensory stimuli, etc.). In each class, students hear a lecture and discuss assigned articles from the research literature. A major goal of the course is to train students in critical analysis of primary journal articles. 4 lec.

417 Cognitive Neuroscience (4)

Prereq: C- or better in BIOS 415 or perm. *E. Peterson, M. Rowe*. Neural basis of higher-order processes in vertebrates: learning and memory,

perception, attention, emotion, consciousness. Topics are considered at behavioral, cellular, and molecular levels. Students are encouraged to understand cognitive processes by integrating research results from multiple levels. In each class, students discuss original journal articles and recent scholarly reviews of topics in cognitive neuroscience. A major goal of the course is to train students in effective presentation of research literature and leadership of group discussions. 4 lec.

418 Methods in Computational Neuroscience (4)

Prereq: BIOS 414 and MATH 263B or 266. *W. Holmes*. Lecture, discussion, and computer lab. Introduction to mathematical and computational techniques for modeling single neurons and networks of neurons. Cable theory; Rall's model; compartmental models; introduction to available software for simulating neurons and networks of neurons; modeling of action potentials, Hodgkin-Huxley equations, synaptic conductances, and voltage-dependent conductances; Hebbian synapses; synaptic modification rules; quantal analysis; neural networks. Students are expected to complete a simulation project using one of the available software packages. 3 lec, 2 lab arr.

422 Microbiological Techniques (5)

Prereq: BIOS 321 or perm. *J. Cunningham*. Semi-independent course gives the microbiology and clinical lab science student extensive experience in the use of standard microbiological equipment and techniques. Experience will be gained in media preparation, bacterial identification procedures, eucaryotic tissue culture, anaerobic methods, protein and DNA isolation and quantitation; all with an applied emphasis. 2 lec, 6 lab.

423A Pathogenic Bacteriology (3)

Prereq: C- or better in BIOS 321. *J. Cunningham*. Microorganisms in relation to disease. Disease manifestations; diagnostic and control methods; some aspects of immunity. 3 lec.

423B Pathogenic Bacteriology Laboratory (2)

Prereq: BIOS 321. *J. Cunningham*. Pathogenic and clinical diagnostic bacteriological techniques. Complements the lecture material in 423A. 4 lab.

424A Virology (3)

Prereq: C- or better in BIOS 320 and 325. *L. LaPierre*. Course intended to familiarize students with the principles of virology and focuses on human and animal viruses. Emphasis is placed on the molecular events following virus-cell interaction, which are critical to viral replication and pathology. Topics also include viral evolution, novel infectious agents, use of viruses for gene therapy, and modern methods of studying viruses. 3 lec.

425 Evolutionary Genetics (4)

Prereq: BIOS 325 and PSY 221. *M. White*. Basic concepts of population genetics (mutation, gene flow, natural selection, genetic drift). Rates, patterns, and processes of molecular evolution at the population and species level. 4 lec.

426 Molecular Genetics (3)

Prereq: C- or better in BIOS 325. BIOS 321 recommended. *D. Holzschu*. Topics will emphasize the interaction of microbial genetics with molecular biology and biotechnology. Genetics of selected bacteria, their bacteriophages, and yeast are covered. Topics include the genetic elements of bacteria, bacteriophage and yeast; mutations and mutagenesis, mitochondrial genetics and prions, mechanisms of gene transfer and recombination, regulation of gene expression and recombinant DNA. 3 lec.

427 Mechanisms of Gene Regulation (3)

Prereq: C- or better in BIOS 325 and jr or sr. *L. Lapierre*. Class is intended for upper-level undergraduates and graduate students. An in-depth discussion of the molecular events that regulate eucaryotic gene expression. Topics also include gene regulation during differentiation and development, aberrant transcription and disease, generation and utility of transgenic animals, and genomics-based analysis of gene expression.

429 Marine Biology (5)

Prereq: BIOS 172 and 173 or PBIO 211 or perm; 430 recommended. *W. Currie*. Biological processes in marine and estuarine habitats, and adaptations for

life at sea, emphasis on environmental variables affecting distribution, abundance, and dynamics of marine plants and animals. Includes optional four-day field trip to marine environment. 5 lec, field trip.

430 Invertebrate Biology (6)

Prereq: BIOS 330 or perm. *P. Hassett*. The major taxa of marine and freshwater invertebrates: structure, function, development, evolutionary relationships, and ecological adaptations. 4 lec, 4 lab.

431 Aquatic Biology (5)

Prereq: BIOS 172 and 173 or PBIO 211 or perm. *W. Currie*. Physical, chemical, and biological processes in lakes and running waters. Emphasis on the collection and analysis of environmental and ecological data describing populations and communities. Lab includes field sampling of local habitats. 4 lec, 3 lab.

433 Biological Assessment and Monitoring (4)

Prereq: C- or better in 330 or permission. *K. Johnson*. An introduction to the use of biological assemblages to detect and diagnose the impact of human activity on natural ecosystems. Key topics include biotic integrity, reference condition, sampling methods, characteristics of good indicator species/metrics, stressor diagnosis, and working with inherent geographical and temporal variability in biological systems. Students will gain an appreciation of how biological understanding is incorporated into legislative and policy actions. Emphasis on aquatic systems but some terrestrial applications will be presented. Laboratory and final project involve hands-on bioassessments in local streams. 2 lec, 4 lab.

436 Field Entomology (3)

Prereq: C- or better in BIOS 330 or concurrent, or PBIO 211. No credit if BIOS 435. *K. Johnson*. A field and laboratory course to introduce students to insect taxonomy and field sampling methods. Emphasis on equipment and protocols for collecting/monitoring insects in their natural habitats, and laboratory procedures for identifying and preserving specimens. Students will become familiar with common insect families and the use of taxonomic keys to identify them. Grades based on field projects, laboratory practicals, and a final project (insect collection). 1 lec, 4 lab.

441A Parasitology (3)

Prereq: BIOS 172 and 173. *E. Rowland*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec.

441B Parasitology Laboratory (2)

Prereq: BIOS 441A or concurrent. *E. Rowland*. Laboratory survey of protozoan and helminth parasites with emphasis on life cycles and identification. 4 lab.

444 Tropical Disease Biology (4)

Prereq: jr or sr. *W. Romoser*. Lecture and seminar course provides an overview of the nature, impact, and management of tropical diseases. Examines tropical diseases as systems. 4 lec.

445 Physiology of Exercise (4)

Prereq: C- or better in BIOS 343 or 345. *R. Gilders, A. Loucks*. Fundamental concepts and application of organ systems' responses to exercise: special reference to skeletal muscle metabolism, energy expenditure, cardiorespiratory regulation, and training and environmental adaptations. 4 lec. (Same as PESS 414.)

446 Physiology of Exercise Laboratory (3)

Prereq: BIOS 445 or concurrent. *C. Schwirian*. Lab experiences designed to complement 445. Lab introduces students to clinical, fitness, and research-related exercise physiology laboratory skills. 6 lab. (Same as PESS 415.)

450 Principles of Endocrinology (4)

Prereq: C- or better in BIOS 342 or 345 or perm. *A. Loucks*. Endocrine control of mammalian homeostasis and metabolism. 4 lec.

457 Animal Systematics (4)

Prereq: BIOS 330. *Staff*. Principles and methods of systematic zoology. Numerical methods and hypothetico-deductive reasoning applied to study of organismic diversity (taxonomy) and geographic distribution (biogeography). Use of computer stressed. 3 lec, 2 hr disc, and computer work.

458 Biology of Amphibians (3)

Prereq: BIOS 330 and jr or sr; no credit if BIOS 472. *S. Moody*. Evolutionary origin, taxonomy and classification, anatomy physiology, ecology, behavior and genetics of amphibians (caecilians, frogs and toads, salamanders and sirens). Field techniques of safe capture and monitoring for population presence and abundance. Identification of Ohio species and North American genera and families. Field trips are an integral part of this course. 2 lec, 3 lab, and field trips.

459 Biology of Reptiles (3)

Prereq: BIOS 330 and jr or sr; no credit if BIOS 472. *S. Moody*. Evolutionary origin, taxonomy and classification, anatomy physiology, ecology, behavior and genetics of reptiles (turtles, crocodylians, tuataras, lizards, and snakes). Field techniques of safe capture and monitoring for population presence and abundance. Identification of Ohio species and North American genera and families. 2 lec, 3 lab and field trips.

462 Animal Physiological Ecology (4)

Prereq: BIOS 343 and (BIOS 275 or PBIO 209 or 425) and (MATH 163B or 263B or 266B). *L. Crockett, K. Johnson, W. Roosenburg*. Examines how organismal physiology is affected by the physical environment. Comparative approaches explore the behavioral, physiological, and biochemical responses to environmental factors. Current topics and methods are addressed in selected readings and discussion. 4 lec.

463 Cell Chemistry (4)

Prereq: CHEM 302 or 307. *L. Crockett*. Structure/function of proteins, lipids, and carbohydrates. Principles of enzyme kinetics, chemical/physical, and functional properties of biological membranes. Biochemistry of energy metabolism and mechanisms of metabolic regulation. 4 lec.

465 Ichthyology (6)

Prereq: BIOS 330. No credit if BIOS 468. Biology of fishes. Lectures emphasize anatomy, physiology, ecology, taxonomy, and evolution. Labs and field trips emphasize identification of Ohio species and include dissection. 4 lec, 4 lab.

470A,B,C,D Clinical Laboratory Science Internship

52-week clinical internship includes theoretical and practical coursework in all phases of clinical lab science at accredited school of clinical laboratory science. Required for certification as a clinical laboratory scientist.

471 Ornithology (6)

Prereq: BIOS 330. *D. Miles*. Bird biology, including discussions on anatomy, physiology, conservation biology, life histories, and role of ornithology in current ecological and evolutionary theory. 4 lec, 4 lab, and field.

473 Animal Behavior (5)

Prereq: 40 hrs BIOS and sr and (PSY 221 or MATH 251). Credit not allowed for both 210 and 473. *M. Morris*. Ecological, physiological, and developmental aspects of animal behavior, interpreted from the perspective of evolutionary biology. 5 lec. Tier III equivalent course.

474 Mammalogy (6)

Prereq: BIOS 330. *G. Svendsen*. Mammals; their origin, evolution and adaptations, geographical distribution, ecology, and systematics. Emphasis on local fauna. 4 lec, 4 lab, and field.

475 Sociobiology (3)

Prereq: BIOS 479 or perm. *G. Svendsen*. Current understanding of how and why animal social behavior evolved, including spacing, mating, and parental behavior of solitary as well as social animals. Lectures, reading, and reports. 3 lec.

477 Population Ecology (4)

Prereq: (BIOS 275 or 375 or 330) and (MATH 163B or 263B or 266B). *K. Cuddington*. Major theories and concepts in population and evolutionary ecology. Emphasis on mathematical models pertaining to growth and regulation of populations; population interactions, including predation and competition, distribution and abundance, and life history theory. 4 lec.

478 Community Ecology (4)

Prereq: (BIOS 275 or 375 or 330) and (MATH 163B or 263B or 266B). *D. Miles*. This course will provide a theoretical and empirical examination of the description, structure, and organization of

communities. Emphasis will be placed on mathematical models that describe the biotic processes that mold community structure. Further consideration of null models in ecology and historical effects will be included. 4 lec.

479 Evolution (4)

Prereq: BIOS 330. G. Svendsen. Current concepts of evolutionary processes: sources of variation, agents of change, natural selection and adaptation, speciation and macroevolution. 4 lec.

481 Animal Conservation Biology (4)

Prereq: 40 hrs BIOS and sr; credit not allowed for both 220 and 481. M. White. The roles of population genetics, population and community ecology, biogeography, systematics, and paleobiology in the study of biodiversity, design of nature reserves, and the recovery of endangered species. Discussion of extinction as a process, the effects of human-induced habitat degradation on loss of species diversity, and the role of reserves in protection of species. 4 lec. Tier III equivalent course.

486A Immunology (3)

Prereq: C- or better in BIOS 321. K. Goodrum, M. Grijalva. Fundamental principles and concepts of immunity and the immune response. 3 lec.

486B Immunology Lab (2)

Prereq: BIOS 486A or concurrent. J. Cunningham. Immunological methods, including identification and assessment of functional activities in immune cells and molecules and applied immunological methods with antibodies in research, diagnosis, and therapy. 2 lab.

489 Microbial Physiology (5)

Prereq: C- or better in BIOS 321. T. Sugiyama. Nutrition, function, and metabolism of microorganisms; pertinent lab work illustrating fundamental principles and various experimental techniques. 3 lec, 4 lab.

491 Biological Internship (2-6)

Prereq: BIOS major and perm of internship director. Practice applying biological methods in professional settings such as biomedical labs, zoos, wildlife refuges and parks, environmental monitoring labs, marine and seaworld institutes, etc.

492 Topics in Zoology (1-6, max 3)

Prereq: BIOS 172, 173; 2.5 g.p.a. in BIOS courses; perm from specific professor. Individual or small-group study of specialized topics in zoology under supervision of instructor. Special registration with departmental secretary absolutely required. Graded cr only.

493 Undergraduate Research (1-3, max 11)

Prereq: 20 hrs and 3.0 g.p.a. in BIOS, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required. Graded cr only.

494H Undergraduate Research (1-4, max 12)

Prereq: 30 hrs and 3.2 g.p.a. in BIOS, perm from specific professor. Individualized and directed research for students in departmental honors program. Students select topics or are directed into possible research areas.

495H Undergraduate Research (Thesis) (3-9, max 15)

Prereq: 494H, 40 hrs and 3.2 g.p.a. in sciences, sr. Independent departmental honors research thesis under supervision of staff member. Student should enroll qtr he or she expects to complete thesis. Registration with director of departmental honors program is required. Tier III equivalent course.

496 Senior Research and Thesis (4)

Prereq: 4 hrs 493, Sr. Not 495H. Independent research and thesis under the supervision of a faculty member. This course requires students already actively involved in a research project (BIOS 493) to present their research findings, both orally and in written thesis format. It is intended for students who are not pursuing a degree in Biological Sciences with honors. Students should enroll in the quarter the research will be completed and thesis presented. Tier III equivalent course.

497T Tutorial Senior Thesis (1-15)

Prereq: perm S. Tanda. Special courses offered to students in Honors Tutorial program.

498T Tutorial Senior Thesis (1-15)

Prereq: perm. S. Tanda. Continuation of 497T. See 497T for description.

499T Tutorial Senior Thesis (1-15)

Prereq: perm. S. Tanda. Continuation of 497T-498T. See 497T for description.

Biology (BIOL)

(See also Biological Sciences and Environmental and Plant Biology.)

101 Principles of Biology (5) (2N)

Designed for nonscience majors. Principles of cell biology, physiology, ecology, genetics, and evolution. No credit for 101 and either BIOS 170, PBIO 110, or PBIO 114. 4 lec, 2 lab.

Black Studies

See African American Studies.

Business Administration (BA)

100A Introduction to the College of Business I (1)

Prereq: CoB. (fall only) First of a two-part sequence. Provides information about College of Business majors, offices, and services so students are familiar with the available options. Department chairs and directors, administrators, student representatives, and various guest speakers discuss the structure and procedures of the College of Business.

100B Introduction to the College of Business II (1)

Prereq: 100A. Second of a two-part sequence. Provides an introduction to the business profession. Students explore various business majors as they relate to scheduling and career options. Professional development and business research skills are covered along with practical issues related to a smooth transition into the College of Business.

240 Business Cluster Project (1)

Prereq: ACCT 101. This course focuses on addressing integrated business problems in the context of cross-functional cluster projects. Students will acquire basic business research skills, use analytical and problem-solving skills to approach cross-functional business problems, learn concepts related to managing effective teams, and acquire practical skills related to communication, networking, and ethical decision making.

250 Strategic Business Communication (4)

Prereq: PRCM 150. This course builds on the business communication fundamentals covered in PRCM 150. Strategic managerial communication issues of critical and current interest are addressed in conjunction with cross-functional cluster projects and include the strategic execution of communication medium, form, and format. Attention is given to strengthening strategic managerial communication skills for greater success in the complex and sometimes problematic workplace.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

340 Regional Business Cluster Project (4)

Prereq: ACCT 101, MKT 240, BA 250, MIS 202, MGT 240, BUSL 255. This course is an expanded version of BA 240 used only on the regional campuses. It also focuses on addressing integrated business problems in the context of cross-functional cluster projects. These projects will integrate on prior learning in marketing, management, information systems and communication. Students will acquire basic business research skills, use analytical and problem-solving skills to approach cross-functional business problems, learn concepts related to managing effective teams, and acquire practical skills related to communication, networking, and ethical decision making.

345 New Venture Creation I (4)

Prereq: jr or sr. The focus of this two-sequence course is on the development of new business ventures rather than on the management of an existing business. The key outcome of these two courses is the development of a business plan which will be presented to local bank loan officers and/or venture capitalists to be used to raise financial capital. By the end of the first course, students are required to have identified a feasible new product or service, market potential, and competitor products. Additional topics covered are legal issues, exploring available support resources for starting a new venture, and the importance of entrepreneurship in the economy.

350 New Venture Creation II (4)

Prereq: 345. Continuation of 345. Students complete their business plan to local bank loan officers and/or venture capitalists to be used to raise financial capital. The focus in this course is on developing and understanding how to develop the financial projections for the plan and the accounting systems necessary to manage the start-up phase. Additional topics covered are a discussion of potential sources of financing for an entrepreneurial venture, valuation of a company, undertaking, and initial public offerings.

370 Administrative Policy (4)

Prereq: MGT 202 or 240, MIS 202, BUSL 255, MKT 202, FIN 325 or concurrent, OPN 310 or concurrent, and PRCM 325 or concurrent. Integrated application of core studies to nature, functions, and activities of actual business, analyzing objectives, policies, and performance in relation to outside environment.

385 Multinational Business (4)

Prereq: jr. Study of emergence of U.S. and non-U.S. multinational corporations, scope of their operations, and their impact on U.S. economy and consumer.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities for participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

480 Ethics and Morality in Business (4)

Prereq: jr or sr and perm. Combined moral philosophy and personal responsibilities in business; critical analysis of contextual situation where provisional resolutions must be indirectly charted between ethical oughts and economic musts.

485 International Business Experience (4)

With faculty approval the student is required to write up a short reflection paper on an international travel experience. The paper should discuss what the student learned, observed cultural differences, and how the experience fits in with their career aspirations.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of business administration under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Business Law (BUSL)

255 Law and Society (4)

Prereq: soph. Conceptual approach to origin, nature, structure, functions, and procedures of law, with study of ethics and introduction to constitutional, administrative, criminal, tort, contractual, international, and environmental law, as well as business organizations.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

356 Law of the Management Process (4)

Prereq: 255, jr or perm. Conceptual framework of legal nature of organizations, particularly corporations and partnerships: rights, powers, and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state, and public.

357 Law of Commercial Transactions (4)
Prereq: 255, jr or perm. Legal aspects of commercial paper, consumer credit, and bankruptcy.

385 International Business Law (4)
Prereq: jr or perm. Examines the laws, organizations, and principles that impact on business transactions in the international arena. Focuses upon the importance of international business in a global economy and upon the special legal issues facing businesses, large and small, that engage in international trade, franchising, licensing, or investment.

398 Internship (1-4)
Prereq: perm. Internship experience that provides opportunities for participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

465 Law of Sports (4)
Regulations of amateur athletics, public regulation of sports activities, legal relationships in professional sports, enforcement of professional sports contract, liability for injuries, and antitrust aspects of sports activities.

475 Government and Business (4)
Prereq: 255 or perm. Governmental regulatory environment of business including analysis of statutes, court decisions, and rulings affecting policy decisions.

491 Seminar (1-5)
Prereq: 255 or perm. Selected topics of current interest in business law area.

497 Independent Research (1-5)
Prereq: perm. Research in selected fields of business law under direction of faculty member.

498 Internship (1-4)
Prereq: perm.

Business Management Technology (BMT)

The following courses for the A.A.B. in business management technology are available on the Chillicothe, Lancaster, and Southern campuses. These courses are not recommended for students in the College of Business.

101 Business and Its Environment (4)
Nature of business and of economic, social, and political environments of business firms. Emphasis on ways in which such surroundings affect business policies and operations.

110 Introduction to Management (4)
Nature of managerial concepts, managerial functions, and organizational structure, with emphasis on current issues.

115 Foundations of Quality and Continuous Improvement (4)
History of the quality movement along with the current thinking and best practices for organization effectiveness. The quality of management and its responsibilities for overall effectiveness will be emphasized.

120 Mathematics in Business (4)
Prereq: MATH 101 or equivalent. Application of basic math to business problems. Special emphasis on compound interest, installment buying, and depreciation. Elementary applications of probabilities and statistics. Introduction to computer programs commonly used in business math applications.

140 Concepts of Marketing (4)
Introduction to problems of manufacturers, wholesalers, and retailers as they relate to modern marketing, market, and product.

150 Elements of Supervision (4)
Concepts of modern-day supervision. Emphasis on supervisor's major functions and development of sensitivity to human facets in management, using behavioral science findings.

170 Small Business Operations (4)
Includes preparation of student for selection and operation of small business. Balanced program of all major aspects confronting small business operator, including finance, personnel, sales, and success and failure factors.

189 Independent Study (1-5, max 5)
Projects concerning business technology explored with instructor in teams or one-to-one. Studies selected in subject areas in business field.

200 Introduction to Business Computing (4)
Focuses on PC-based applications used in business and industry, such as word processing, spreadsheets, databases, and presentation packages. Computer lab setting.

203 Business Career Profiles (3)
Practical approach to better understanding by students of what is expected of them by management and what they can expect from management on any job or in any working situation by achieving a better grasp of the various activities and institutions found in the business community.

210 Managing Finance in Business (4)
Prereq: ATCH 103, or ACCT 101 and 102. Introduction to basic concepts, principles, and analytical techniques of financing. Emphasis on planning and managing assets.

220 Concepts of Purchasing Management (4)
Analysis of purchasing operation's structure and procedure. Descriptions of quality, quantity, value analysis, sources of supply, and procurement controls. Vendor/buyer relationships, make-or-buy decisions, inventory control, buyer training, materials handling, records, and budgets.

230 Concepts of Sales (4)
Policies and procedures pertaining to planning sales effort and control of sales operations. Personality development and role of selling in society, careers, and psychology and philosophy as related to selling.

240 Concepts of Audience Analysis (3)
Prereq: not open to College of Business majors. Development of knowledge of behavior content of marketing in consumer fields. Examination of applicable theory and research findings and concepts provided by psychology, sociology, anthropology, and marketing. Stress on conceptual models of buyer behavior based on sources of influence.

250 Practical Personnel Procedures (4)
Hiring, training, assignment of work, employee counseling, promotion, wage and salary administration. Leadership, motivation, and direction of employees toward management/employee-oriented goals.

260 Business Report Writing (4)
Prereq: Tier I ENG; not open to College of Business majors. Practice in planning and writing effective business letters, memoranda, and reports.

270 Advertising Concepts (4)
General course in advertising which emphasizes psychology, advertising agency, media research, brands, and labels.

275 Managerial Planning (4)
Prereq: CTCH 125, CS 120, or OTEC 226. In-depth coverage of the planning process with emphasis on strategic planning. The case study approach is employed to develop skill in complex and difficult decision making. Applications in management science to assist in the decision process are covered.

280 Concepts of Labor and Management Relations (4)
A broad overview of micro and macroeconomic theory as applied to the labor factor of production; the many problems related to the full utilization of human resources and government policies addressing these problems; the effects of unionism and labor-management relations including collective bargaining.

285 Government and Business (4)
Business and government relations, with emphasis on analysis of selected areas involving public policy and business.

288 Computer Applications for Management (4)
Prereq: 275. Utilizes integrated software package skills acquired in 200 and in comprehensive case-studies approach in business. Spreadsheet, data base management, word processing, and graphics applications used to create comprehensive business report that ties together overall curriculum.

289 Special Topics (1-5, max 5)
Advanced projects concerning business technology explored with instructor in teams or one-to-one. For advanced students only.

Chemistry (CHEM)

100D Peer-Led Team Learning Laboratory for Chem 151 (1)

Co-registration with Chem 151. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

100E Peer-Led Team Learning Laboratory for Chem 152 (1)

Co-registration with Chem 152. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

100F Peer-Led Team Learning Laboratory for Chem 153 (1)

Co-registration with Chem 153. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

100L Peer-Led Team Learning Laboratory for Chem 305 (1)

Co-registration with Chem 305. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

100M Peer-Led Team Learning Laboratory for Chem 306 (1)

Co-registration with Chem 306. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

100N Peer-Led Team Learning Laboratory for Chem 307 (1)

Co-registration with Chem 307. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

101 Chemistry Applied to Today's World (4) (2A)

(spring) Designed for nonscience majors with little or no previous experience with chemistry. Applications of basic principles of chemistry to real world situations. Instruction will include multimedia and small group activities. 4 lec.

115 Preparation for College Chemistry (2)
Prereq: fr only, or perm. For students who have not had high school chemistry or have had inadequate preparation to enter regular chemistry sequence. Material presented includes metric system, atomic and molecular structure, formulas, equations, states of matter, and problem solving. Will not satisfy any part of natural sciences requirement of College of Arts and Sciences. 2 lec.

121 Principles of Chemistry I (4) (2N)
(fall, winter) Prereq: Math Placement level 2 or MATH 113 concurrent. Introduction to chemistry through study of atomic and molecular structure, periodic table, and states of matter. Credit not allowed for both 121 and 151. 3 lec, 3 lab.

122 Principles of Chemistry II (4) (2N)
Prereq: C- or better in 121, or 151. (winter, spring) Introduction to gases, solutions, acids, bases, and concept of equilibrium. Credit not allowed for both 122 and 152. 3 lec, 3 lab.

123 Principles of Chemistry III (4) (2N)
Prereq: 122 or 152. (spring, fall) Designed to survey organic chemistry and biochemistry and their impact upon daily existence. 3 lec, 3 lab.

150 Concepts in Chemistry (4)
Prereq: Math Placement Level 2 or MATH 113 concurrent. (fall, spring) Introduction to chemistry for those majors requiring CHEM 151. Topics include foundations of matter and energy, nomenclature, formulas, stoichiometry, and atomic theory. 3 lec, 3 lab.

151 Fundamentals of Chemistry I (5) (2N)

Prereq: MATH 113 or placement Level 2 or higher; passing score on chemistry placement exam. (fall, winter, summer) General course in fundamental chemical principles. Atomic structure, periodic classification, bonding, mole concept, and stoichiometry with problem solving. Recommended for majors in chemistry, engineering, biological sciences, plant biology, clinical laboratory science, geological sciences, secondary education (B.S. Ed in biological sciences, chemistry, physics, and integrated science), and preprofessional (biological science) areas. Credit not allowed for both 121 and 151. 4 lec, 3 lab.

152 Fundamentals of Chemistry II (5) (2N)

Prereq: C- or better in 151 (winter, spring, summer) States of matter, solutions, kinetics, acids, bases, and chemical equilibrium acid, bases, and salts with problem solving. Credit not allowed for both 122 and 152. 4 lec, 3 lab.

153 Fundamentals of Chemistry III (5) (2N)

Prereq: 152 (fall, spring) Introduction to solubility equilibration, thermodynamics, and redox. Study of the chemistry of transition metals, selected representative elements, and molecular orbital theory. Introduction to nuclear and radiochemistry. Lab includes qualitative analysis. 4 lec, 3 lab.

241 Quantitative Analysis (4)

Prereq: 153 and concurrent with 242. (fall) Introduction to quantitative techniques that include volumetric, gravimetric methods of analysis, and spreadsheet calculations. MS Excel for modeling and problem solving. Concurrent registration in 242 required. 4 lec

242 Quantitative Analysis Laboratory (1)

Prereq: 241 or with 241. (fall) Laboratory work to accompany 241. Concurrent registration in 241 required. 3 lab.

301 Organic Chemistry (3)*

Prereq: 123 or 153, or concurrent. (winter) Designed for students who are not B.S. chemistry majors and who do not require a full-year course in organic chemistry.

302 Organic Chemistry (3)*

Prereq: 301. (spring) Continuation of 301. See 301 for description.

303 Organic Chemistry Laboratory (2)*

Prereq: 301 or 305, or concurrent. (fall, winter, spring) Designed for students who are not B.S. chemistry majors. 1 lec, 2 lab.

304 Organic Chemistry Laboratory (3)*

Prereq: 303; 302 or 307, or concurrent. (fall, spring) Continuation of 303. See 303 for description. 6 lab.

305 Organic Chemistry (3)*

Prereq: 153 or concurrent. (fall, summer) Organic chemistry for chemistry majors and other students wishing to acquire sound knowledge of classical and modern organic chemistry.

306 Organic Chemistry (3)*

Prereq: 305. (winter, summer) Continuation of 305. See 305 for description.

307 Organic Chemistry (3)*

Prereq: 306. (fall, spring) Continuation of 305-306. See 305 for description.

308 Organic Chemistry Laboratory (3)*

Prereq: 306, or concurrent; major. (winter) Emphasis on synthesis, purification, and characterization of organic compounds. Designed for B.S. chemistry majors. 6 lab.

309 Organic Chemistry Laboratory (3)*

Prereq: 308 and 307 or concurrent. (spring) Continuation of 308. See 308 for description.

325 Instrumental Methods of Analysis (4)

Prereq: 241 and 242. (winter) Survey of instrumental methods in chemical analysis. 3 lec, 3 lab.

351 Physical Chemistry (4)

Prereq: MATH 163B or 263B, or perm and 153 (fall) For premedicine, B.S. Ed., B.S.I.H., and A.B. chemistry majors. Topics include thermodynamics, thermochemistry, equilibrium, solutions, and kinetics.

376 Fundamentals of Inorganic Chemistry (3)

Prereq: 153. (winter) Inorganic topics related to

structure, bonding, redox, HSAB and descriptive main group/transition metal chemistry, including complexes/organometallics. 3 lec.

400A Advanced Organic Laboratory (2)

Prereq: 307, 309. (spring) Advanced organic lab techniques and instrumentation. 4 lab

400B Advanced Inorganic Laboratory (2)

Prereq: 476. (winter) Advanced inorganic laboratory synthesis and techniques. Individual projects. 4 lab.

420 Chemical Literature (3)

Prereq: 24 hrs. Instruction in use of chemical literature and application to scientific writing.

431 Chemical Separation Methods (3)

Prereq: C- or better in 241, and 351 or 453, or concurrent. (winter) Modern methods of separating components of complex mixtures with emphasis on operation and application to analytical chemistry. Topics include liquid-liquid extractions, partition chromatography, ion-exchange, gas chromatography, high pressure liquid chromatography, exclusion chromatography, and electrophoresis. Concurrent registration in 434 required for initial enrollment. 3 lec.

432 Chemical Instrumentation and Electrochemistry (3)

Prereq: C- or better in 241, and 351 or 453, or concurrent. (spring) Modern electrochemical techniques and instrumentation with emphasis on their applications in analytical chemistry. Topics include potentiometry, specific ion electrodes, DC and AC polarography, pulse polarography, coulometry, chronocoulometry, cyclic voltammetry, and rapid scan voltammetry. Concurrent registration in 435 required for initial enrollment. 3 lec.

433 Spectrochemical Analysis (3)

Prereq: C- or better in 241; and 351 or 453, or concurrent. (fall) Survey of spectrochemical instrumentation with emphasis on their operation and applications in analytical chemistry. Topics include atomic absorption, atomic emission, molecular absorption and molecular emission and will cover emission-absorption phenomena in the X-ray, ultraviolet, visible, and infrared regions of electromagnetic spectrum. Concurrent registration in 436 required for initial enrollment. 3 lec.

434 Chemical Separation Methods Laboratory (1)

Prereq: 431 or concurrent. (winter) Laboratory work to accompany 431. 3 lab.

435 Chemical Instrumentation and Electrochemistry Laboratory (1)

Prereq: 432 or concurrent. (spring) Laboratory work to accompany 432. 3 lab.

436 Spectrochemical Analysis Laboratory (2)

Prereq: 433 or concurrent. (fall) Laboratory work to accompany 433. 4 lab.

453 Physical Chemistry (3)

Prereq: 153, MATH 263D or concurrent, PHYS 253. (fall) Calculus based study of thermodynamics with applications to chemical equilibria

454 Physical Chemistry (3)

Prereq: 453. (winter) Continuation of 453. Thermodynamics of mixtures, phase diagrams, chemical equilibrium, ionic solutions, and chemical kinetics.

455 Physical Chemistry (3)

Prereq: 454. (spring) Continuation of 454. Quantum theory with applications to simple systems which model the electronic structure of atoms and molecules.

456 Physical Chemistry Laboratory (3)

Prereq: 351 or 453. Experimental determination of molecular weights, ionic velocities, composition of azeotropes and complex ions, equilibrium constants, phase rule diagrams, and vibrational and rotational constants for HCl, DCl. Instrumental procedures include refractometry, polarimetry, viscometry, and infrared spectroscopy. 6 lab.

457 Physical Chemistry Laboratory (3)

Prereq: 456. Continuation of 456. 6 lab.

458 Chemical Thermodynamics (3)

Prereq: 455. (spring) Concepts of energy and entropy and their use in predicting feasibility and extent of chemical reactions.

459 Physical Chemistry (3)

Prereq: 454. (spring) continuation of 454. Topics include surfaces, solids, electrical conduction and transport properties, and polymers.

460 Spectroscopic Methods in Organic Chemistry (3)

Prereq: 302 or 307. (winter) Modern spectroscopic methods as employed in organic chemical research: NMR, IR, mass spectrometry, and UV.

471 The Physical Chemistry of Macromolecules (3)

Prereq: 454. Effects of structure and molecular weight on physical and chemical properties of macromolecules. Topics include molecular weight distribution, solubility, polymer conformation, different types of polymers, synthesis, and reactions. Both synthetic and natural polymers considered.

476 Modern Inorganic Chemistry (4)

Prereq: CHEM 376 and (351 or 453 or concurrent) (fall) Considers relationship between physical and chemical properties of inorganic substances and nature of bonding and structures involved. 4 lec.

480 Advanced Organic Chemistry (4)

Prereq: perm. (fall) Structural theory, stereochemistry, reactive intermediates, and reaction mechanisms.

485 Introduction to Toxicology (4)

Prereq: CHEM 489 or 490. (winter) Introduction to chemical, clinical, environmental, and forensic aspects of toxicology, types of poisons, how poisons act, treatment of acute poisoning, and control of poisonous materials.

487A Forensic Chemistry (3)

Prereq: C or better in 431 and 433. Surveys chemical problems most frequently encountered in crime labs and their currently acceptable solutions, as well as special techniques not covered in other analytical chemistry courses. 3 lec.

487B Forensic Chemistry (3)

Prereq: 487A or concurrent. Laboratory work to accompany 487A. 3 lab.

488A Special Topics in Forensic Science I (3)

Prereq: CHEM 431. Survey topics, which are not included in CHEM 487 or law enforcement technology (LET) courses, relevant to the modern crime lab. These topics will be focused on arson analysis and explosive analysis. Other topics such as toolmark/document identification, forensic entomology, and forensic photography will also be included.

488C Forensic DNA Analysis (3)

Prereq: 489 or 490 or concurrent. Survey of techniques and instrumentation used in the identification, extraction, and analysis of DNA obtained from forensic evidence. Topics include the identification and extraction of blood stains, DNA analysis by restriction fragment length polymorphisms, PCR amplified length and sequence polymorphisms, STR systems, and mitochondrial DNA sequencing. Electrophoretic techniques and statistical interpretation of data will also be covered.

489 Basic Biochemistry (4)

Prereq: 302 or 307. (fall) Survey course, including introduction to biochemical concepts and techniques, metabolic pathways, and information storage and transmission, with emphasis on directions of current biochemical research.

490 General Biochemistry I (4)

Prereq: 307. (fall) Macromolecular structure of biomolecules.

491 General Biochemistry II (3)

Prereq: 490. (winter) Bioenergetics, metabolism, and metabolic control systems. Physical chemistry recommended.

492 General Biochemistry III (3)

Prereq: 491. (spring) Complex integrated biochemical systems.

493 Biochemical Techniques (3)

Prereq: 490; biochemistry major or perm. (winter) Laboratory course using modern biochemical and molecular biology techniques including electrophoresis, chromatography, and enzyme kinetics. 6 lab.

494 Biochemical Research (1-5)

Prereq: perm. (fall, winter, spring) Independent work in a biochemistry laboratory. Students will be assigned a research project which will use various biochemical research techniques. Students may enroll one or more quarters. 2-10 lab.

497 Forensic Chemistry Internship (3-10)

Prereq: sr in Forensic Chemistry Program and perm. Supervised work in approved forensic science lab to gain practical experience. Oral and written reports required.

499 Undergraduate Research (1-5)

Prereq: jr or sr with 2.75 g.p.a. in chemistry courses and perm of department chair. Independent work for qualified upperclass majors in chemistry and related areas. Student may enroll one or more quarters.

499B Undergraduate Research (2)

Prereq: 30 hrs chemistry and senior and permission. Independent research for qualified students in chemistry and biochemistry. *This is a Tier III equivalent course.*

*Credit is not allowed for both sequences of organic chemistry courses—301-302-303-304 and 305-306-307-308-309. Transfer from the middle of one sequence to the other may be possible, but is permitted only upon approval of the faculty in the courses involved.

Chinese

See Foreign Languages and Literatures.

Classics and World Religions (CLAR/CLAS/CLWR)

Classical Archaeology (CLAR)

211 Greek Archaeology (4) (2S)

Provides an introduction to Greek society as known from archaeology; covers the period from the Minoan and Mycenaean Bronze Age to Hellenistic times. Topics include the initial development of civilization in Greece and its rebirth after the Dark Ages, the continuing interchange of ideas between the Near East and Greece, the development of architectural styles and building complexes, and the role of public art in the propaganda of a city. Emphasis is on the use of archaeology to interpret the social development of the Greeks.

212 Roman Archaeology (4) (2S)

Traces the development of one ethnic group, the Romans, in their appropriation and transformation of various native, Etruscan, and Greek artistic styles. Focuses on the different social, political, and artistic influences that contributed to the continuous change and development of Roman material culture, and emphasizes the Roman ability to adapt and innovate. Topics include the nature of Greek influence on Italian culture, the development of a characteristic Roman architecture, archaeological evidence for the economy, the development of public and private art styles, and the Roman provinces.

213 Near Eastern and Egyptian Archaeology (4) (2S)

Survey course tracing the initial development of complex urban states in Mesopotamia, Syro-Palestine, Anatolia, and Egypt from the Late Neolithic into the Early Bronze Age, and their increasing influence on each other from the Middle through the Late Bronze Age and into the Iron Age. Presents the main elements of society, art, and architecture in these major Near Eastern cultures. Topics include the role of religion in the early states, the rise of the absolute ruler, trade networks, and the growth of the Egyptian and Hittite empires.

352X Ancient Rome: Development of the City from the 8th Century B.C. to the 4th Century A.D. (4)

Prereq: Any LAT course or CLAS 254 or CLAR 212 or HIST 329B. An introduction to the urban development of ancient Rome through an intensive on-site examination of its monuments and artifacts. The focus is on field work. While Rome is the focus of the course, several days are also spent at Ostia and Pompeii to highlight aspects of Roman life not readily observable in modern Rome.

353X Reuses of Roman Antiquity (4)

Prereq: soph, CLAS 254X concurrent. Focuses on two aspects of the reuse of antiquity: the reuse of spolia, fragments of Roman buildings, statuary, and inscriptions to create new monuments, and the way the idea of "empire" was used for propaganda in the development of the city by Sixtus V, Napoleon, and Mussolini.

361 Greek Cities and Sanctuaries (4)

Historical overview of the evolution of the ancient Greek city and of the principal Greek religious sanctuaries, followed by a detailed introduction to the topography and monuments of representative sites.

362 The Archaeology of Roman Cities (4)

An archaeological study of Rome and other Roman cities from the 8th century B.C. to the fall of the Roman empire. Particular emphasis is placed on the physical remains as products of and evidence for the changing cultural and political concepts that constantly revised the design and composition of Roman cities.

363 Aegean Archaeology (4)

Uses archaeological evidence and methods to trace the development of the three main Aegean civilizations—Minoan, Cycladic, and Mycenaean—from the appearance of the first agricultural communities in the Neolithic period (6000 B.C.) to the widespread destruction and subsequent economic decline at the end of the Bronze Age (1100 B.C.). Focuses on the archaeological evidence for state formations and the internal factors and external influences that shaped the palace complexes on Crete and in Greece.

364 Craft and Technology in the Roman World (4)

The purpose of this course is to introduce students to the ways in which different types of ancient objects were created. We examine the tools and processes used to create objects of iron, bronze, marble, glass, and terracotta. Various types of modern analysis also are discussed to show how advances in technology affect our understanding of the ancient world. A larger goal of the course is to impart a better understanding of the relationship between the development of technology and political/economic changes in connection with changing attitudes and desires of the Roman people in different parts of the Roman Empire.

451 Mycenaean Society (4)

Examines Mycenaean society primarily from the information in Mycenaean texts including original Linear B texts, put into perspective through the use of archaeological material. Examines the development and use of scripts in the Aegean to record different aspects of the palace economy. Topics include the social structure within and outside the palaces, agriculture, craft production, trade, the demise of the palace economic system, and the relevance of the Homeric poems to our understanding of Mycenaean society. (No linguistic prerequisite.)

Classics in English (CLAS)

The lectures and readings for these courses are in English, and the courses may count as part of the humanities area requirement of the College of Arts and Sciences. These courses cannot count as part of the foreign language requirement of the College of Arts and Sciences.

127 Greek and Latin Words in English (4) (2H)

General and technical vocabulary derived from Greek and Latin. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

227 Greek and Latin Roots in Biomedical Terminology (4)

This course teaches students a vast number of Greek and Latin linguistic elements (bases, prefixes, suffixes, etc.) and basic linguistic principles useful to anticipating meanings of biomedical terminology via etymology.

231 Human Aspirations Among the Greeks and Romans (4) (2H)

A study of the hopes and goals that shaped the lives of individuals and societies in the ancient Western tradition. Topics include financial success, respect, pleasure, wisdom, national well-being, and salvation of the soul. Involves extensive reading of Greek and Latin literature in English translation.

234 Classical Mythology (4) (2H)

Introduction to classical mythology; readings and discussions of myths and their interpretations. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

235 Classics in Translation (4) (2H)

Reading of Greek and Latin literature in English translation. May be counted as part of requirements for humanities of College of Arts and Sciences. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

236 Classics in Translation (4) (2H)

Continuation of 235.

237 Classics in Translation (4) (2H)

Continuation of 236.

252 Classical Athens (4) (2H)

Study of classical Athens as the city and its people are known to us from the written texts and archaeological remains of the period.

253 Alexander the Great and the Hellenistic World (4) (2H)

An interdisciplinary approach to life and thought in the Hellenistic world from the conquests of Alexander the Great to ascendancy of Rome in the eastern Mediterranean (fourth to first centuries BC). The course content is based on archaeological, historical, and literary sources.

254 Rome under the Caesars (4) (2H)

An interdisciplinary approach to life and thought in Rome from the reigns of Augustus through Marcus Aurelius (27BC-AD180) based on archaeological, historical, and literary sources.

255 Pagan to Christian in Late Antiquity (4) (2H)

An interdisciplinary approach to the dramatic changes that occur in ways of looking at the individual and his place in the world during the 4th through 6th centuries of our era as paganism is replaced by Christianity as the dominant religious view. The geographical foci are Rome and Constantinople. The sources are textual, artistic, and archaeological.

301 Love in Antiquity (4)

Reading and discussion of major literary and philosophical treatments of love in Greco-Roman tradition. All readings are in English translation. No knowledge of Greek or Latin required.

311 Gods and Heroes in Greek Epic (4)

A survey of the history, literature, and values of the Greek Heroic period: Mycenaean heroes (Achilles, Agamemnon, Ajax, Odysseus, Jason, etc.), and the Epic tradition (Homer, Hesiod, Apollonius) who passed on their stories to later generations of Greeks.

312 Greek Tragedy (4)

A survey of Greek tragedy in English translation: extensive reading from Aeschylus, Sophocles, and Euripides. Study of the historical and cultural setting and the literary aspect of the plays.

313 Greek Sophists and Orators (4)

An introduction to the new modes of oratory and argumentation which flourished in the context of 5th-century B.C. Greek democracy.

343 Women in the Ancient Mediterranean (4)

Prereq: soph or WS 100. Survey of aspects of women's lives in ancient Greece, Rome, Egypt, and Mesopotamia based upon textual and archaeological material, with an emphasis upon the cultural biases inherent in the sources.

351X On-Site Survey of Greek History (4)

A survey of Greek history from Mycenaean to modern times, with particular attention to sites on the itinerary of the study abroad program in Greece.

391 Colloquium in Classics (1)

A bi-weekly colloquium featuring: 1) presentations by faculty members on the different disciplines included in the study of the ancient world, 2) presentations by faculty of aspects of their own research, 3) presentations by seniors of their research, 4) meetings with visiting scholars. Prerequisites: Classics major, sophomore status or higher, or by permission.

401 Life of the Romans (4)

An examination of Roman life from a number

of perspectives emphasizing the Roman family, sexual attitudes, slavery, and the economy. Attention given to the means by which classicists draw conclusions about ancient Roman life and social attitudes.

498 Independent Study in Classical Literature (1-8, max 8)
Prereq: perm. Directed individual reading and research.

World Religions (CLWR)

181 Introduction to Religion (4) (2H)
Definition of religion and analysis of its various aspects including ritual, social, experiential, and symbolic.

301 Old Testament (5) (2H)
Background and development of Old Testament, its philosophical, moral, and religious significance.

302 New Testament (5) (2H)
Background and development of New Testament, philosophical, moral, and religious significance of beliefs of Jesus, Paul, and early Church.

305 Asceticism: Virgins, Monks and Hermits (4)
Prereq: soph. Examination of asceticism—the rejection of physical pleasure and material wealth—as philosophical and religious ideal in pagan and Christian communities in the world. This course will focus on reading ancient texts in translation.

306 Religion and Violence (4)
Prereq: soph. Examines religious violence by studying historical case studies from different religious traditions. Themes include divine punishments against humans, martyrdom, forced conversions, persecutions, holy wars, and the importance of religion in contemporary conflicts.

311 Islam (4) (2C)
Introduction to basic ideas, history, and background.

321 Hinduism (4) (2C)
Vedic religion, Hinduism, Jainism.

331 Buddhism (4) (2C)
Introduction to doctrines, origins, and varieties.

341 Taoism (5)
Prereq: jr or perm. A historical survey of philosophical and religious Taoism from the 3rd century B.C. to the 18th century.

361 American Religions (4)
Prereq: jr. (on demand) Christianity, Judaism, and other religions and developments in U.S.

385J Writing on Religion (4) (1J)
Prereq: first year comp, 181, jr. or perm. Study of vocabulary and communication problems in written description and analysis of religious phenomena. Writing projects in various styles, from reports of personal experience to scholarly research.

387 Theories of Religion (4)
Introduces students to the major theories of religion, the hermeneutics of suspicion, the hermeneutics of the sacred, the sociology of religion, historical approaches to the study of religion, and the feminist critique.

442 Confucianism (4)
Prereq: 3 CLWR courses. Examination of the texts associated with Confucius and their history, including religious, social, and intellectual aspects.

471 African Religions (4)
Prereq: 3 CLWR courses. Study of the worldviews of African traditional cultures expressed in myths, art, beliefs, and practices.

481 Myth and Symbolism (5)
Prereq: 3 CLWR courses. Characteristic expressions of thought in primitive societies and theories concerning primitive mentality.

482 Thinking About Death (4)
Prereq: 3 CLWR courses. Survey and analysis of human thought and practice regarding death.

483 Contemporary Religious Thought (5)
Prereq: 3 CLWR courses. Representative thinkers such as Tillich, Buber, and others.

484 Women and Religion (4)
Prereq: soph. Examines the ways in which women exercise authority in religious traditions, the ways they have been innovative and reinterpreted or re-appropriated patriarchal texts or structures.

490 Senior Research (2)
Prereq: senior. Research on a selected topic in World Religions.

491 Senior Research Writing (4)
Prereq: CLWR 490. Writing a scholarly paper based on research in World Religions.

498 Independent Study (1-8)
Directed individual reading and research for students who wish to study an area of World Religions not covered by a regular course.

Communication Studies (COMS)

101 Fundamentals of Human Communication (4) (2H)
Introductory analysis of oral communication in human relationships with focus on variety of contexts including dyadic, small group, and public communication experiences. Serves as survey of human communication processes. Mass lec.

103 Fundamentals of Public Speaking (4)
Principles of public speaking, practice in presenting informative and persuasive speeches with emphasis on communicative process.

104 Listening (4)
Improvement of listening skills through intensive practice.

110 Communication Between Cultures (4)
The purpose of the course is to explore the role of communication in understanding, accepting, and appreciating cultural differences. Students in this course will understand that culture includes not only issues of nationality, ethnicity, and race, but also gender, socioeconomic status, age, etc. Using a number of co-cultural, cross-cultural, and intercultural examples, students will explore how communication is a key component of bridging cultural differences.

117 Beginning Forensics (1-3, max 6)
Students prepare for competition in oral interpretation, public speaking, and/or debate as part of the Ohio University Forensics Team. Travel to a weekend tournament at another university is required to earn credit. Number of credits depends upon number of performances prepared for competition.

205 Techniques of Group Discussion (4)
Study of structure and dynamics of small groups, nature and functions of leadership, group participation, problem solving, and decision making; frequent participation in group discussion activities.

206 Communication in Interpersonal Relationships (4)
Provides maximum experience in study of communication in social interaction. Exploration of communication variables, and skill development in message generation in one-to-one informal settings.

215 Argumentative Analysis and Advocacy (4)
Prereq: C or better in 103. Basic principles of argumentative discourse including concepts of presumption, burden of proof, rhetorical forms of reasoning, and evidence. Practice in applying these principles.

217 Advanced Forensics (1-3, max 6)
Prereq: 117 or perm. Students prepare for competition in one or more individual events and/or debate as part of the Ohio University Forensics Team. Attendance at tournaments is expected.

220 Oral Interpretation of Literature (4)
Techniques of oral interpretation and development of adequate intellectual and emotional responsiveness to meaning of literature.

235 Introduction to Communication Theory (4)
Prereq: COM or perm; soph or jr or sr; no cr if 234 or 250. To identify the purposes, history, and application of key social and rhetorical theories of

communication through reading and discussing classic works of communication theory. To understand issues of epistemology, ontology, and axiology when discussing the goals and methods related to relevant theories.

240 Introduction to Health Communication (4)
Prereq: C or better in 235. Concerned with issues in the theory and practice of health communication. Topics include provider-patient communication, organizational communication in health care delivery systems, communication in community/consumer health education, information technologies in health communication, communication in support systems for the elderly, disabled, and terminally ill, and communication training for health care professionals.

245 Introduction to Organizational Communication (4)
Prereq: C or better in 235. Analysis of traditional and contemporary theories of communication in context of modern complex organizations (government, industry, education, etc.). Consideration and explication of such pertinent concepts and variables as message, channel, networks, information, information flow, communication climate, communication audit, etc.

260 Introduction to Communication in Public Advocacy (4)
Prereq: C or better in 235. To introduce students to the theoretical, philosophical, and methodological influences integral to legal and political communication research. To aid in the development of students' understanding of those sources through readings, class discussions, writing assignments, examinations, and presentations. To provide a theoretical and technical vocabulary of legal and political communication research that will establish a foundation for successful advancement in the major.

297T Communication Studies Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

298T Communication Studies Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

299T Communication Studies Tutorial (1-15)
Prereq: Honors Tutorial College and perm.

300 Field Research Methods in Communication (4)
Prereq: jr. or sr. Discussion and application of communication data collection methods such as content analysis, participant observation, questionnaire design, sampling procedures, case studies, and unobtrusive measures.

301 Empirical Research Applications in Communication (4)
Prereq: MATH 113 or higher; no credit if PSY 221 or QBA 201 or MATH 251. Provides undergraduates with principles and basic skills necessary to criticize research literature; develops minimal proficiencies in structuring designs basic to descriptive and experimental studies, including data collection, analysis, and presentation techniques in communication research.

303 Rhetorical Analysis and Criticism (4)
Prereq: C or better in 235. Studies the approaches and methods of modern rhetorical critics. Emphasizes research and writing skills for a critical evaluation of rhetorical artifacts.

304 Principles and Techniques of Interviewing (4)
Prereq: jr. or sr. Methods used in two-party, face-to-face oral communicative situations commonly encountered in organizational and professional environments. Intensive practice through role-playing and real-life interviews in and out of class, emphasizing skills involved in giving and getting information, persuasion, and job-employment situations.

306 Interpersonal Conflict Management (4)
Prereq: jr. or sr. Analysis of the communication dynamics involved in managing interpersonal and organizational conflicts. Examination of theory and research related to conflict management. Emphasis on case studies and role-playing conflicts in various interpersonal and group settings.

310 Information Diffusion (4)

Prereq: jr or sr. This course provides an understanding of information diffusion theory, which seeks to explain the process through which new ideas (innovations) spread over time via communication channels among the members of a social system. It especially emphasizes the relevance, practicality, and usefulness of diffusion theory in interpersonal, group, organizational, and mass communication settings, with an emphasis in areas of public education, health, and policy. The course focuses on factors that speed or hinder innovations and the critical points of interface between information dissemination systems and end users.

315 Advanced Argument and Debate (4)

Prereq: jr or sr; C or better in 215. Purpose of course is to familiarize student with argumentation, rhetoric, and communication skills used in legal process. Advanced argumentation and debate course with legal issues used as basis for arguments.

320 Women and Health Communication (4)

Prereq: jr. or sr. This course focuses on the unique communication issues for women in health-related settings. Topics include the accomplishment of relational, informational, and medical goals for women health care seekers, as well as the challenges of offering and seeking social support in contemporary society.

342 Communication and Persuasion (4)

Prereq: jr. Process of communication and attitude change, survey of general theories and typical research, and analysis of contemporary persuasion problems.

345 Advanced Organizational Communication (4)

Prereq: 245. This course builds upon and extends the conceptual foundations of organizational communication through analysis and critical examination. Students will read, discuss, and write about advances in contemporary organizational communication thought, practices, and research orientations.

351 Courtroom Rhetoric (4) (25)

Prereq: jr. or sr. Famous cases and methods of communication of masters of courtroom and judicial oratory. Cases, trials including Cicero, Strafford, Charles I, Erskine, Hastings, Marshall, Webster, Darrow, Sacco-Vanzetti.

352 Political Rhetoric (4) (25)

Prereq: jr. or sr. Rhetorical techniques found in political discourse are examined. Topics covered include symbolic politics, the place of myth in politics, and the political elements of film, literature, and television.

353 Contemporary Culture and Rhetoric (4) (25)

Prereq: jr. or sr. Explores the relationship between rhetoric and contemporary culture. Contemporary theories of rhetoric are examined and used to study communication in contemporary cultural issues. Issues involving identity and power, in particular, will be discussed.

397T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

398T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

399T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

403 Advanced Presentations (4)

Prereq: mjr; jr or sr; C or better in 103. This course will build on the knowledge and skills developed in COM5 103. Students will learn how to make presentations that require extensive research, longer presentation times, and/or adaptation to diverse audiences. Particular attention will be given to developing competence with presentation technology.

405 Meeting and Conference Planning (4)

Prereq: jr. or sr., C or better in 205. Theoretical and methodological approaches to principles of group and conference leadership. Emphasis on leadership methods and skills as they apply to group and conference situations.

406 Advanced Interpersonal Communication (4)

Prereq: C or better in 206. An examination of communication theories relevant to the study of interpersonal communication. Attention will be given to communication involved in initiating, developing, maintaining, repairing, and disengaging from interpersonal relationships.

410 Cross-Cultural Communication (4)

Prereq: jr. or sr. Analysis of processes and problems of communication as affected by national cultures; effects of differences in language, values, meaning, perception, and thought.

411 Communicating with People with Disabilities (4)

Examines the implications of communication between the physically disabled and able-bodied individuals/groups. The course utilizes simulated exercises, video presentations, field trips, and outside guest lecturers to give the student reasonable exposure to the disabled community.

420 Gender and Communication (4)

Prereq: 101 or C or better in 206. Explores variations in communicative behaviors related to biological sex and psychological gender. Examines female and male communication in intrapersonal, interpersonal, small group, public, and organizational settings.

421 Instructional Training and Development in Communication (4)

Prereq: 234 or C or better in 235. Provides upper-level undergraduates with an opportunity to learn how to design instructional training programs beginning with the needs assessment and continuing through the evaluation phase. Combination of lecture/discussion and student presentations.

422 Communication in the Family (4)

Prereq: jr. or sr., 101 or C or better in 206. Examination of the communication concepts basic to understanding interaction in the family. Provides a framework for analysis of family communication. Explores communication issues that relate to family interaction, including conflict, power, intimacy, and the development of relationships. Presents a model of effective communication in the family. Consideration of verbal and nonverbal communication behaviors.

430 Communication and the Campaign (4)

Prereq: 342. Theory and practice of persuasion and management in campaign situations (political, religious, information, fundraising, advertising, etc.). Students may participate in local, state, or national campaigns, or do an in-depth research paper.

442 Responsibilities and Freedom of Speech in Communication (4)

Prereq: jr. or sr. Ethical and rhetorical implications of constitutional guarantees on political, social, and religious speech; analysis of effects of famous legal cases on freedom of speech.

445 Practicum in Communication (4)

Prereq: sr; mjr; 240, 245, or 260; Students assume roles in an internal real-to-life organization and engage in a consulting or training project with a client. Opportunity to apply theories and skills developed in major.

448 Rhetoric and Electronic Media (4)

Prereq: jr. or sr. This course examines meaning-making via the electronic symbol, verbal and graphic. Classes will alternate between the analyses of theory and close examination of radio, hypertext (online via the World Wide Web and stored on CD-ROM), e-mail, word processing, and television—especially in contrast to print and speech.

450 Capstone Seminar in Communication (4)

Prereq: mjr; sr. This course presents a seminar treatment of current or topical interest in communication studies. The topic will vary with instructor expertise and research interests. During the seminar, students will synthesize and integrate concepts from multiple areas of communication. *This course designated as a Tier III equivalent.*

470/570 Effective Classroom Communication for Teachers and Trainers (4/5)

Course focuses on interpersonal communication in

classroom environment, with particular emphasis on communication between students and teachers. Taught in intensive format only during summer session.

471/571 Nonverbal Communication for Teachers and Trainers (4/5)

Course focuses on the nonverbal behaviors used by students and teachers/trainers, and the impact of those behaviors on student/teacher relationships. Taught in intensive format only during summer session.

472/572 Communication in Your Workplace: Strategies for Teachers and Administrators (4/5)

Course focuses on the organizational communication variables that operate within the classroom, school, community, and state. Increases the abilities of teachers and administrators to understand and respond to the various organizational constituencies to which they are accountable. Taught in intensive format only during summer session.

473/573 Effective Listening and Small Group Communication for Teachers and Trainers (4/5)

Course focuses on steps to more effective listening and working in small groups for teachers and trainers. Designed to familiarize teachers and trainers with the keys to active listening, the stages of group development and decline, how to manage groups, and improving their cooperation and productivity. Taught in intensive format only during summer session.

474/574 Family Communication for Teachers and Trainers (4/5)

This course explores issues of family communication for classroom teachers and organizational trainers. The definition and nature of contemporary families are explored. Children's views of the family and peer relationships are highlighted. Conflict, stress, decision making, and problem solving are discussed. Special activities for the teacher and trainer are provided. Taught in intensive format only during summer session.

475/575 Instructional Communication Assessment for Teachers and Trainers (4/5)

Examination of test construction and grading practices, procedures, and formats. Analysis of underlying assumptions and philosophies of assessment in education. Emphasis on the alignment among objectives, testing practices, and evaluation procedures. Taught in intensive format only during summer session.

476/576 Children's Conflict and Mediation for Teachers and Trainers (4/5)

This course focuses on the design and implementation of peer dispute mediation programs within elementary and secondary school systems. Course content includes discussion of children's communication development and development of conflict management ability, the rationale underlying and challenges involved with implementing peer mediation programs, and approaches to training youngsters in mediation and conflict management communication skills. Taught in intensive format only during summer session.

477/577 Communicating with Diverse Students (4/5)

This course is designed to explore issues relevant to enhancing communication competence and effectiveness between individuals of diverse backgrounds. Specifically, the class will address interactions between people from a variety of backgrounds including gender, age, religious, geographical, ethnic or racial differences. The focus will be on examining the impact of variables such as communication. Students will have the opportunity to explore the underlying patterns that influence their own, as well as others', communication behaviors and discuss strategies to improve understanding of, and appreciation for, differences. Taught in intensive format only during summer session.

496A Health Communication Internship (4)

Prereq: jr or sr, mjr; perm. This course will provide students with a supervised, guided practical experience relevant to their Health Communication concentration.

496B Organizational Communication Internship (4)

Prereq: jr or sr mjr, perm. This course will provide students with a supervised, guided practical experience relevant to their Organizational Communication concentration.

496C Communication in Public Advocacy Internship (4)

Prereq: jr or sr mjr, perm. This course will provide students with a supervised, guided practical experience relevant to their Communication and Public Advocacy concentration.

480 Topics in Communication (4)

Prereq: COM mjr, perm. The structure of the course will vary with each instructor, but readings, classroom discussion, and demonstration of understanding through written work will be typical.

497 Internship (1-15)

Prereq: mjr, perm. Supervised practical training, and experience in selected professional environments for COMS undergraduate students. Students should consult with the Internship Coordinator about the courses required before an internship can be taken for academic credit.

497T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

498 Independent Study (1-4, max 12)

Prereq: written proposal & perm. May be repeated for credit.

498T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

499T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

Communication Systems Management (COMT)

101 Consumer Issues in Communication Systems Management (4) (2A)

Provides a broad overview of issues in voice, data, and image communications. Topics focus on consumer issues, technological advancements, and the impact of communication systems on society.

201 Understanding Internet Technology (4) (2A)

A survey of the technologies that make the Internet useful. Most visibly, this includes the World-wide Web, e-mail, file transfer, and packet telephony. At the network level, this includes layered protocols, packet switching, LANs, WANs, routing, TCP/IP. Security issues—worms, viruses, and spyware—will be discussed.

214 Introduction to Communication Systems Management (4)

General principles and techniques of point-to-point telecommunications. Includes brief history of field and general introduction to technology of voice, data, and image transmissions.

220 Communication Systems and Applications I (4)

Prereq: 214, major. Principles of operation and design of typical voice and imaging communication systems. Includes switching, transmission, traffic studies, queuing techniques, and broadband networks.

222 Communication Systems and Applications II (4)

Prereq: 214, major. Principles, theories, and technology of data networks are explored in this course. Topics include coding and timing of data, components of data networks, and protocols.

302 Fundamentals of Common Carrier Regulation (4)

Prereq: 214, 220, ECON 103, major. Study of regulatory systems, tariff structures, and costing of telecommunications across state and national boundaries. Basic policy development at state and federal levels. Impact of the Telecommunications Act of 1996.

304 Applications of Common Carrier Regulation (4)

Prereq: C or better in 302, major. Provides applications of the materials learned in 302. Topics include the tariff filing process, rate making methodologies, the Computer Inquiries, and regulation of emerging technologies.

310 Technological Basics of Communication Systems (4)

Prereq: 220 and 222, major. Investigation of the technical issues common to all communications systems. Topics include basic electrical and electromagnetic theory, fundamentals of circuits and components, and operation of the telephone and other communications equipment.

312 Technology of Voice/Data Systems (3)

Prereq: 310, major. Basic laboratory experience in the technologies commonly found in voice and data telecommunication systems. Students design, examine, and build basic telecommunication circuits; and develop both competency in the use of telecommunication test equipment and skills in system problem analysis.

325 Data Networks (4)

Prereq: 220 and 222, major. Provides the understanding needed to use telecommunication protocols and access methods to design and implement applications software in a data communications environment. Topics will include: TCP/IP, selected other protocols, and the OSI model.

339 Applications of Voice Telecommunications (4)

Prereq: C or better in 220. Study of Voice Application systems based on the integration of computers and voice switching equipment: voice mail, automated attendant, interactive voice response, audiotele, speech recognition, predictive dialers, unified messaging, automatic speech recognition, and automatic call distribution systems. Interaction with switching services of the PSTN. ANI, DNIS, SS7. Introduction to digital signal processing. TAPI, TSAPI and other telephony application standards. Practical ACD experience in the lab.

343 Switched Carrier Networks (4)

Prereq: C or better in 220, 222. Examination of the technical components of deployed telecommunication networks. Attention is given to the functional elements of switch technologies and switched services, to carrier technologies and their utilization, and to integration of these technologies for the public switched network and PSN-based services, such as Switched Multimegabit Data Service, Fiber Distributed Data Interface, Frame Relay, and ISDN.

351 Privacy in the Information Age (4)(25)

Prereq: C or better in 220. This course examines the impact of communication and information technologies on personal privacy. Theories of privacy, constitutional bases for privacy, and privacy laws are discussed. The impact of technologies like computer databases and surveillance cameras and of methods like data mining, telemarketing and cookies on financial, medical, and workplace privacy are considered. The information technology aspects of the war on terrorism, and the related privacy issues, are also addressed.

391 Topical Seminar (3-4)

Prereq: 220, 222, major. Specialized topics, taught by faculty or visiting professionals. Illustrative examples have included wireless communications, voice applications, encryption, and voice over IP.

401 Internship in Communication (1-12)

Prereq: written proposal and perm. Internship with approved company, agency, or organization. Application necessary; comprehensive paper required. Students may not apply both 401 and 495 toward COMT elective requirement.

405 Competition and Market Structure in Network Industries (4)

Prereq: 304, 310, major. An in-depth analysis of policy and market issues of fundamental concern to the voice/data communication environment. Examples of such issues could include markets for bandwidth, antitrust and software markets, cost allocation, and data network traffic pricing.

407 International Communication Networks (4)

Prereq: 302, 310, major. A study of international communication organizations (PTTs, the ITU, etc.), international satellite organizations, and other international record carriers. The course will explore current issues in international standards and regulations.

411 Pricing of Telecommunications Services (4)

Prereq: 302. Examination of pricing, price-setting and price changes for telecommunication services. Pricing topics examined include: competitive market pricing; regulated pricing; multi-part tariffs; bundled and unbundled pricing; flat-rate and measured service pricing; pricing of equipment; pricing of local, interconnection, and long-distance services; and the pricing of mobile and Internet-based telephone services.

429 Communication Network Analysis and Design (4)

Prereq: 220, 222, 304, statistics, major. An extensive examination of the process of designing communications networks. Topics will include statistical distribution of voice, data, and image traffic; definition of limitations in communication networks, and experiences in modeling various network topologies.

431 Senior Seminar (2)

Prereq: 302, 222, major. Weekly discussions with faculty and telecommunication professionals; position papers required for discussion and presentation.

437 Wireless Telecommunication Networking (4)

Prereq: C or better in 220, 222. Study of wireless networking. Radio communication: RF propagation, communication over noisy channels, S/N ratio, antennas, frequency assignment. Satellite basics: components, operations, orbits, frequencies, earthstations. Wide area terrestrial wireless systems: analog and digital cellular, PCS. Wireless local area networks: structure, security, deployment planning.

441 Voice over IP (4)

Prereq: C or better in 220, 222. Study of transmission of voice information using Internet Protocol techniques. Topics include: consumer-oriented services such as Vonage or Digital Voice, use of VoIP to replace traditional PBXs, VoIP as a tool for connectivity in the corporate enterprise, E911 and VoIP, use of VoIP to avoid toll charges, codecs, gateways, and methods to achieve high-quality audio using VoIP. Voice-related protocols: H.323, SIP, Megaco, and others. Practical experience in the lab.

444 Management of Communication Resources (4)

Prereq: 304, major. Case studies in costing communication carriers; developing and responding to RFPs/RFOs; and needs analysis of communication installations. Extensive paper required.

451 Telecommunication Network Security (4)

Prereq: 325. Securing telecom networks against malicious intrusion. The basic concepts of data security: availability, confidentiality, authentication, non-repudiation. The nature of the hazard: hackers, malware (including viruses, worms, Trojans, adware and spyware), denial of service attacks. Tools and strategies to mitigate the hazard are discussed, including firewalls, NAT, DMZs, virtual LANs, WLANs.

453 Encrypted Communication (4)

Prereq: C or better in 222. The basic principles and technology of telecommunication using encryption as a security tool, including hash functions, symmetric key encryption, and asymmetric key encryption. The basic concepts of data security: availability, confidentiality, authentication, non-repudiation. Digital signatures. Some topics are: SSH, VPN, IPsec, Kerberos. A key topic will be PKI—Public Key Infrastructure—systems.

455 Network Security Planning (4)

Prereq: C or better in 220, 222, MGT 202. Network security from a manager's perspective. Threats, risks, and risk assessment. The basic concepts of data security: availability, confidentiality, authentication, non-repudiation. Network reliability, availability and downtime. Business

continuity planning. Backup and hot sites, redundancy. Security policies, including acceptable use.

475 Internet Engineering (4)

Prereq: 220, 222, major. Internet status and future, including IP addressing, DNS, DHCP, and utilities such as ping and traceroute. Router configuration and operating systems, Linux and Windows.

491 Topical Seminar (3-4)

Prereq: 222, 302, major. Specialized topics taught by faculty or J. Warren McClure Distinguished Visiting Professor. Illustrative examples have included privacy and GIS in telecommunications.

493 Special Studies (1-4, max 12)

Prereq: 214, major, and proposal. Independent study, supervised by faculty.

495 Practicum in Communication Systems (3-5, max 12)

Prereq: perm. Faculty-supervised first-hand experience with installing, designing, configuring, maintaining, or otherwise managing communication systems. A written report is required. Students may not apply both 401 and 495 toward COMT elective requirement.

Computer Science (CS)

120 Computer Literacy (4)

Prereq: MATH 101 or Placement Level 1 (fall, winter, spring) Basic computer course for students from different disciplines who are expected to use computers in an academic environment. Lecture emphasis is on concepts—what the student needs to know about computer systems, essential applications, internet options, and computer security and ethical concerns in an information age. Lab emphasis is on skills—what the student needs to practice to be proficient with word processing, spreadsheets, database management systems, presentation graphics and web pages as problem-solving tools. No credit if CS major; no credit if MIS 100 or HS 309.

190 Workshop in Computer Applications (.5-.5)

Short courses in specific topics in computer applications. Lecture and hands-on practice on such subjects as the internet, word processing, spreadsheets, and databases. Students seeking credit must complete project determined by instructor. Graded credit/no credit.

210 Programming in C (5)

Prereq: MATH 113 or placement level 2 or 263A or 163. A first course for students with no programming background who intend to continue with more advanced programming classes. Basic programming and programming structure, computer organization, data representation, control structures, manipulation of strings, arrays, structures, and pointers. Computer solutions to a variety of problems using the C programming language. Debugging and verification techniques.

220 Introduction to Computing (5) (IM)

Prereq: MATH 113 or equiv. Algorithms, programs, and computers. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Computer solution of several numerical and nonnumerical problems using one or more programming languages. Course does not apply to Arts and Sciences natural science requirement. FORTRAN taught.

230 Computer Programming I (5) (2A)

Prereq: 2 yrs HS Algebra or MATH 113 or equiv. (fall, winter, spring, summer) Intended as a stand-alone class for students who want to learn about computer programming for their use in unrelated fields. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using one or more programming languages. JAVA taught.

240A Introduction to Computer Science (5)

Prereq: MATH 115 or math placement level 3 or MATH 263A; 210 or perm. (fall, winter, spring, summer) An intensive introduction to the process

of algorithmic problem solving in a computing environment. Topics include problem definition and specification, algorithm design, efficiency and validity of implementation. Serves as an introduction to advanced topics in computer science for students with previous programming experience.

240B Introduction to Computer Science (4)

Prereq: 240A, MATH 263A, EE 102 (fall, winter, spring) Implementation and application of standard data structures and their operations, abstract data types and encapsulation, sorting, searching, storage management and complexity of algorithms. Continuation of 240A.

240C Introduction to Computer Science (4)

Prereq: C or better in 240B, MATH 263B; 265 or EE 103 (fall, winter, spring) One large program will be developed by the student with design guidance from the instructor. This course will synthesize the material from 240A and 240B into a disciplined approach to design and development using current software engineering principles and practices for specification, design, coding, and testing.

265 Computer Ethics (1)

Prereq: 240A. (fall, winter, spring) An investigation into the ethical dimensions of computer technology. The course begins with an overview of the dominant traditions within normative ethics. These theories are then used as a framework within which students consider specific ethical topics germane to computing and information technology. Topics include censorship, intellectual property, privacy, and the obligations and implications of cyber-relationships.

297T Computer Science Tutorial (1-15)

Prereq: HTC students only. (fall) First-year tutorial studies in computer science.

298T Computer Science Tutorial (1-15)

Prereq: HTC students only. (winter) First-year tutorial studies in computer science.

299T Computer Science Tutorial (1-15)

Prereq: HTC students only. (spring) First-year tutorial studies in computer science.

300 Introduction to Discrete Structures (5)

Prereq: 240A. (fall, winter, spring) Review of set algebra including mappings and relations. Algebraic structures including semi-groups and groups. Elements of theory of directed and undirected graphs. Boolean algebra and propositional logic. Applications of these structures to various areas of computer science.

309 C++ for Non-majors (4)

Prereq: 210 or 230 or ET 181. Designed to teach the C++ language to technically able students with previous programming experience who are not majoring in Computer Science. Deals with various topics including the syntax and semantics of C++, modular design of programs, functions, iterative structures, selection structures, classes, arrays, abstract data types (ADTs), and the separate compilation of modules. Includes a brief introduction to the string class and template classes.

320 Organization of Programming Languages (5)

Prereq: C or better in 240B, 300. (winter, spring) Formal definition of programming languages, including specification of syntax and semantics. The imperative, object-oriented, functional, and logic programming language paradigms are discussed. Names, binding, storage allocation, type checking, and scopes in the major programming languages. Programming language design issues including data types, expressions, assignment statements, control structures, and subprograms. Runtime representation of program and data structures.

361 Data Structures (5)

Prereq: 300, 240C. (fall, spring) Basic concepts of data. Linear lists, strings, arrays, and orthogonal lists. Representation of trees and graphs. Storage systems and structures and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Formal specification of data structures, data structures in programming languages, and generalized data management systems.

397T Computer Science Tutorial (1-15)

Prereq: HTC students only. (fall) Second-year tutorial studies in computer science.

398T Computer Science Tutorial (1-15)

Prereq: HTC students only. (winter) Second-year tutorial studies in computer science.

399T Computer Science Tutorial (1-15)

Prereq: HTC students only. (spring) Second-year tutorial studies in computer science.

404 Design and Analysis of Algorithms (5)

Prereq: 361. (fall, winter) The course provides an introduction to the modern study of computer algorithms. Topics include correctness of algorithms, analysis of iterative and recursive algorithms, worst-case, best-case, and average-case behavior, design of algorithms, divide and conquer algorithms, the greedy method, graph searching, and dynamic programming techniques. Selected additional topics may include computational geometry or NP-completeness.

406 Computation Theory (5)

Prereq: 300. (fall, spring) The fundamentals concerning formal language theory and the theory of computation are explored. Topics include basic models of computation, the Church-Turing thesis, Turing machines, decidability and undecidability, computational complexity, NP-completeness, and diagonalization.

410 Formal Languages and Syntactic Analysis (5)

Prereq: 320, 361. (winter) Practical and formal aspects of computing related to the lexical and syntactic analysis stages of compilation are explored. The relationships among regular expressions, deterministic finite automata, and nondeterministic finite automata are presented. The relationship between context-free grammars and pushdown automata is also explored. Practical parsing algorithms are examined, including bottom-up, top-down, and recursive descent strategies.

425 Interactive Computer Graphics (4)

Prereq: 361. This course introduces students to modern interactive computer graphics. It emphasizes hands-on learning through the development of several projects throughout the quarter. Topics include: graphical systems and models, graphics programming, input and interaction, geometric objects and transformations, lighting and shading, and discrete techniques.

442 Operating Systems and Computer Architecture I (5)

Prereq: 361, EE 395A. (fall, winter) In-depth coverage of computer operating systems and related computer architecture issues. Coverage of physical devices, interrupts, and communication between the computer and external hardware. Interfaces between user programs and the operating system, system calls, software interrupts, and protection issues. Context switching, process address spaces, and process scheduling. Process synchronization, interprocess communications, critical sections, and deadlock detection and recovery. Memory mapping, swapping, paging, and virtual memory.

444 Data Communications (5)

Prereq: 442. (spring) In-depth coverage of computer-to-computer and program-to-program communication over modern computer networks focusing on the TCP/IP protocol family. Review of data communication issues, physical address binding, bridging, Ethernet, and Token Ring. Internetwork protocols, routing, domains, networks, and subnetworks. Transport protocols, reliability, flow control, retransmission, and acknowledgment. Distributed systems, server and client issues including verification, and authentication. High-level protocols and applications including electronic mail, network news, remote terminal interaction, and the World Wide Web.

456 Software Design (5)

Prereq: 361; 320 or EE 352 (fall, spring) All major phases of the software engineering lifecycle, including system engineering, requirements analysis, design, implementation and testing. Communication skills that are relevant to working in software engineering teams and interacting with customers. Teams of students perform all software engineering phases in response to the needs of a customer. This is a Tier III equivalent course.

458 Operating Systems and Computer Architecture II (5)

Prereq: 442. (spring) Continuation of 442. Detailed discussion of virtual memory and backing stores. File system interfaces, implementation, and protection mechanisms. Process scheduling issues, policies, and mechanisms. Interprocess communication between programs on different computers. Distributed systems issues, examples, and implementation.

462 Database Systems I (5)

Prereq: 361 (winter, spring) Introduces fundamental concepts in data modeling and relational database systems. Begins with the entity-relationship (ER) modeling technique as a tool for conceptual database design. The relational data model and relational algebra are introduced next, followed by the SQL query language for relational databases. Functional dependencies, normalization, and relational database design algorithms are then discussed.

475 Internet Engineering (4)

Prereq: 361 or perm. (winter) Understanding internet protocols, network cabling, hubs, and switches, configuring network routers; configuring Unix and Windows workstations, measuring and analyzing network performance; and troubleshooting.

480 Artificial Intelligence (5)

Prereq: 300 (fall) Definition of heuristic versus algorithmic methods, rationale of heuristic approach, description of cognitive processes, and approaches to mathematical invention. Objectives of work in artificial intelligence, simulation of cognitive behavior, and self-organizing systems. Heuristic programming techniques including use of list processing languages. Survey of examples from representative application areas. Mind-brain problem and nature of intelligence. Class and individual projects to illustrate basic concepts.

490 Special Problems in Computer Science (1-6)

Prereq: jr; 3 400-level courses below 490. Special project in 1 of various subfields of computer science or application area studied, investigated, and/or solved by individual student or small group working in close relationship with instructor. Suitable problems might include construction of compiler for special purpose artificial language, perfection of computer code to solve some significant problem, or study of coherent subfield of computer science. May be repeated for credit.

496 Computer Science Internship (1-15, max 15)

Prereq: perm.

Computer Science Technology (CTCH)

The following courses for the A.A.B. in computer science technology are available only on the Chillicothe, Lancaster and Southern campuses.

125 Introduction to Computers (4)

Prereq: C or better in MATH 101. Introduces productivity software within the framework of business applications. Involves hands-on assignments including Windows, word processing, spreadsheets, presentation graphics, the Internet, and e-mail.

127 Introduction to Website Management (4)

Introduction to Website management principles, skills, techniques, strategies, hardware, and software necessary to operate and maintain a successful Website or Intranet. Emphasis on how to maximize the usability of a website while maintaining the structure necessary to allow the site to change and grow.

133 Programming and Design I (5)

Prereq: MATH 101 or higher placement. Introduction to structured design and computer programming. Students analyze, design, program, test, and debug business applications. Emphasis is on top-down logic design and modular-structured programming.

134 COBOL Programming I (5)

Prereq: MATH 101 or higher placement. Introduction to structured design and COBOL programming. Students analyze, design, program,

test, and debug business applications. Emphasis is on top-down logic design and modular-structured programming.

160 Network Concepts I (4)

Prereq: MATH 101 or higher placement. Concepts and principles of business data communications are explored. Topics include communication media and equipment, data transmission, protocols, networks, and network management.

161 Network Concepts II (4)

Prereq: C or better in CTCH 160. Concepts and principles of computer networks are explored. Topics include uses of computer networks, network basics, building a network, network management, and network security.

162 Network Systems I (4)

Prereq: C or better in CTCH 161. Concepts and principles of client server systems are explored. Topics include introduction to client server computing, understanding LAN, MAN, and WAN, how to build a client server system, and client server management.

189A Internets and Distributed Computing 1 (4)

Prereq: C or better in 160. An introduction to the use of internets and distributed computing. Study will focus on the theoretical foundations of internetworking including the OSI reference model, the TCP/IP reference model, network configurations, and networking protocols.

189B Internets and Distributed Computing 2 (4)

Prereq: C or better in 189A. A continuation of 189A, the course examines the routing and routed protocols used in internetworking, the hardware and software involved in the design, installation, configuration, maintenance, and evaluation of an internet.

189C Distributed Computer Applications (4)

Prereq: C or better in 189B. A continuation of 189B, this course focuses on the characteristics of distributed business applications including: databases, video conferencing, and enterprise resource planning.

189D Network Security (4)

Prereq: C or better in 189C. A continuation of 189C, the course provides an in-depth examination of distributed communication systems including the management of the infrastructure and the provision of network security.

233 Programming and Design II (5)

Prereq: C or better in 133. Continuation of 133 with emphasis on array handling and file processing.

234 COBOL Programming II (5)

Prereq: C or better in 134. Continuation of 134 with emphasis on table handling and file processing.

240 C/C++ Programming (5)

Prereq: MATH 101 or higher placement. An introduction to C programming language. Students analyze, design, program, test, and debug business-related applications. Emphasis on top-down logic design and modular structured programming.

241 Visual Programming (5)

Prereq: MATH 101 or higher placement. Introduction to logic and visual programming techniques. Includes analyzing, designing, coding, testing, and debugging computer applications using visual programming.

242 Java Programming (5)

Prereq: MATH 101 or higher placement. Introduction to logic and Java programming. Includes analyzing, designing coding, testing, and debugging computer applications using Java.

285 Database Management Systems (4)

Prereq: C or better in 125. Introduction to database management systems. Focus is on applying the techniques of data base to create effective and efficient information systems.

290 Special Topics (1-5, max 10)

Prereq: perm. Provides the opportunity to explore or expand upon subjects or topics not covered or only briefly covered in other CTCH courses. Topics

may vary from year to year and may include either business or scientific applications in computer science.

291A Systems Analysis I (4)

Prereq: C or better in 125. This course looks at the planning and management of information systems projects, along with tools for analysis and evaluation of alternatives.

291B Systems Analysis II (4)

Prereq: C or better in 291A. Continuation of 291A with emphasis on designing and implementing information systems, along with testing and maintenance.

299 Practicum (1-10, max 20)

Prereq: perm.

Dance (DANC)

090 Composition Laboratory (0)

This course is to be taken in conjunction with composition classes.

101A Modern Dance Technique I (3)

Prereq: Dance major/minor or perm. required. Introduction to basic technical skills of modern dance including alignment, strength, flexibility, rhythmic accuracy, and reproduction of a movement shape.

102A Modern Dance Technique I (3)

Prereq: 101A or perm. required. Continuation of 101A.

103A Modern Dance Technique I (3)

Prereq: 102A or perm. required. Further development of 102A.

101B Ballet Technique I (2)

Prereq: Dance major/minor or perm. required. Introduction to ballet and the development of basic technical skills within the classical ballet tradition. Execution of basic ballet vocabulary with an emphasis on classical line.

102B Ballet Technique I (2)

Prereq: 101B or perm. required. Continuation of 101B.

103B Ballet Technique I (2)

Prereq: 102B or perm. required. Further development of 102B.

101C Beginning Composition (2)

Prereq: Dance major/minor or perm. required. Exploration of movement materials through improvisation and short problems dealing with rhythm, space, movement qualities, and dynamics.

102C Beginning Composition (2)

Prereq: 101C or perm. Continuation of 101C.

103C Beginning Composition (2)

Prereq: 102C or perm. Further development of 102C.

104D Jazz Dance Technique I

Beginning introduction to basic movement skills from various styles of jazz dance including the use of proper technique, performance quality, and rhythmic complexity.

111 Music for Dance I (2)

Prereq: perm. Nature and principles of rhythmic structure in dance and music.

120 Introduction to Dance (2)

(A) modern dance, (B) ballet, (C) jazz. (D) African

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the Schools of Music, Dance, and Theater with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for CA 150, MUS 150, or THAR 150.

170 Viewing 20th-Century Dance (4) (2H)

Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, physiological, social, and cultural aspects.

171 The Dance Experience (4) (2H)

A comprehensive course to introduce the beginning student to contemporary and classical dance forms including modern, ballet, and jazz dance styles. Discussions and readings cover historical and aesthetic perspectives. Live performances and studio practice contribute to students' experiential learning.

201A Modern Dance Technique II (3)

Prereq: 103A or perm. required. Development of basic technical skills for modern dance. More complex coordinations which add more spatial and dynamic considerations.

202A Modern Dance Technique II (3)

Prereq: 201A or perm. required. Continuation of 201A.

203A Modern Dance Technique II (3)

Prereq: 202A or perm. required. Further development of 202A.

201B Ballet Technique II (2)

Prereq: 103B or perm. required. Expanded balletic movement vocabulary with continued emphasis on basic technical skills. Musicality will be emphasized.

202B Ballet Technique II (2)

Prereq: 201B or perm. required. Continuation of 201B.

203B Ballet Technique II (2)

Prereq: 202B or perm. required. Further development of 202B.

201C Intermediate Composition (2)

Prereq: 103C or perm. Choreographic studies to enhance the student's understanding and appreciation of the creative process by developing the concepts of rhythm, space, and dynamics into longer, more detailed studies.

202C Intermediate Composition (2)

Prereq: 201C or perm. Continuation of 201C.

203C Intermediate Composition (2)

Prereq: 202C or perm. Further development of 202C.

204D Jazz Dance Technique II

Development of movement skills from various styles of jazz using a series of challenging exercises and movement phrases to improve technique, build strength, stamina, and performance quality.

211 Creative Listening for Dance (1)

This course affords opportunity for students to gain knowledge of different musical styles through exposure to a wide array of music listening experiences. Students are encouraged to share musical interests and tastes.

220 Dance Technique II (2)

Prereq: 120 or equiv. (A) modern dance, (B) ballet, (C) jazz, (D) African.

231 Introduction to Dance Kinesiology (2)

Introduces student to basic anatomical materials, kinesiological concepts, and their relationship to production of dance movement.

240 Practicum in Teaching Dance I (1)

Prereq: perm. Observation and assistance in student teaching. May be repeated.

250 Ethnic Dance of Non-Western Cultures (2)

Dances from selected non-Western cultures with emphasis on style and related folklore.

255 Ethnic Dance of Western Cultures (2)

Dances from selected Western cultures with emphasis on style and related folklore.

271 Black Dance Forms (4) (2H)

A lecture and studio/lab course that will familiarize students with Black dance forms and the contributions that African Americans have made to the development of dance in America. Discussions, readings, videotaped material, live performances, and studio practice will all contribute to the students' experiential learning.

301A Modern Dance Technique III (3)

Prereq: 203B or perm. required. Refinement of technical skills through more complex movement patterns. Additional emphasis on performance, phrasing, dynamics, and spatial concerns.

302A Modern Dance Technique III (3)

Prereq: 203A or perm. required. Continuation of 301A.

303A Modern Dance Technique III (3)

Prereq: 302A or perm. required. Further development of 302A.

301B Ballet Technique III (2)

Prereq: 203B or perm. required. Employment of technical skills through more complex balletic patterns and expanded classical vocabulary. Additional emphasis on performance, phrasing, and dynamics.

302B Ballet Technique III (2)

Prereq: 301B or perm. required. Continuation of 301B.

303B Ballet Technique III (2)

Prereq: 302B or perm. required. Further development of 302B.

301C Advanced Composition (2)

Prereq: 203C or perm. The synthesis of choreographic elements, devices, and musical or sound choices into studies having a sense of form and content.

302C Advanced Composition (2)

Prereq: 301C or perm. Continuation of 301C.

303C Advanced Composition (2)

Prereq: 301C or perm. Further development of 302C.

304D Jazz Dance Technique III

Refinement of jazz dance skills through a more complex series of exercises, spatial progressions, and movement phrases. Additional emphasis on performance quality, dynamics, and range of motion.

310 Accompaniment for Dance (2)

Prereq: 111 or perm. Basic problems in accompanying dance and analysis of dance forms related to accompaniment.

311 Midi Composition for Dancers (3)

This course is about creating musical compositions using a computer sequencer and sample based synthesizers. The primary objectives are gaining a working knowledge of a MIDI and investigating the qualities and parameters that are basic to music composition and how they relate to dance composition and performance.

312 Music for Dance II (3)

Prereq: 111 or equiv. Also for music composition majors who wish to write for dance theater. History of music for dance. Choreographer-composer relationship.

313 Dance Notation I (3)

Prereq: perm. Principles of dance notation.

315A Laban Movement Analysis I (3)

This course surveys the movement analysis theories of Rudolf Laban. Particular attention is given to identifying the dynamics and spatial relationship of movement expression and function. The course includes movement observation, description and practice in a wide variety of settings and applications. No previous dance experience is required.

31B Collaborative Skills for the Dance Musician (2)

Technique and skill training for pianists in accompanying ballet and modern dance techniques classes. Includes class and lab sessions.

320 Dance Technique III (2)

Prereq: 220 or equiv. (A) modern dance, (B) ballet, (C) jazz, (D) African

330 Dance Movement Lab (1-5)

Prereq: perm. Addresses individual problems related to the production of movement. Means to augment physical function and expand the qualitative range of the mover are explored.

330A Pilates Reformer Training (1)

Designed to condition students using resistance training on the Universal Reformer and other Pilates apparatus. Students learn exercise principles and techniques on specialized equipment, focusing on correction of body alignment problems, muscle imbalances, strength, and flexibility.

330B Bartenieff Fundamentals (1)

Exploration and practice in a system of movement training designed to improve the functional and expressive aspects of movement.

330C Pilates Mat Training (1)

Includes laboratory practice of 45 mat exercises that train the muscles to improve body stability and mobility. The Pilates method develops precision coordination and concentration in movement while increasing strength and flexibility. Addresses injury rehabilitation from the perspective of preventive training.

331 Analysis of Dance Movement (4)

Prereq: 231. Explores skeletal alignment and deviation, muscular development and function, and mechanical efficiency in production of dance movement. Basic to course study is thorough understanding of principles of stability and motion as they relate to dance.

332 Fitness for the Whole Mover (2)

Introduces the basics of fitness in practice and theory. Strength, flexibility, aerobic conditioning, and relaxation as a part of the fitness continuum are explored through a variety of approaches to creating and attaining fitness goals.

333 Pilates Teaching Practicum (2)

This course is designed to provide supervised teaching experience and practice for students preparing to enter the Pilates Teacher Certification Program. Students will conduct practice teaching on all Pilates apparatus, learning body alignment, exercise prescription and progress assessment techniques.

351 Dance Cultures of the World I (4) (2C)

Introduction to dance cultures of world (excluding Western art dance). Function of dance in society and its relationship to other arts.

352 Dance Cultures of the World II (4) (2C)

Same as 351.

353 Dance Cultures of the World III (4) (2C)

Same as 351.

370 Viewing 20th Century Dance (4)

Prereq: not open to students who have had 170; jr and above. Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, psychological, social, and cultural aspects.

380 Practicum in Dance Production (1)

Prereq: perm. Supervised lab practice in production and/or performance. May be repeated.

385 Dance Repertory (3, max 12)

Prereq: majors only, audition, and perm. Rehearsal and performance of choreographic works taught by choreographer or reconstructors with aid of videotape, film, and/or dance scores.

401A Modern Dance Technique IV (3)

Prereq: 303A or perm. required. Employment of technical skill to address the more subtle demands of performance focus, projection, expressivity, and dynamic range.

401B Ballet Technique IV (2)

Prereq: 303B or perm. required. Employment of technical skills and performance demands within the classical ballet tradition.

402A Modern Dance Technique IV (3)

Prereq: 401A or perm. required. Continuation of 401A.

402B Ballet Technique IV (2)

Prereq: 401B or perm. required. Continuation of 401B.

403A Modern Dance Technique IV (3)

Prereq: 402A or perm. required. Further development of 402A.

403B Ballet Technique IV (2)

Prereq: 402B or perm. required. Further development of 402B.

404D Jazz Dance Technique IV

Advanced development of refined jazz dance skills that address the demands of preprofessional performance.

411 Dance Notation II (3)

Prereq: 313 or perm. Continuation of 313 with more advanced reading and writing in notation.

420 Dance Technique IV (2)

Prereq: 320. (A) modern dance, (B) ballet, (C) jazz. (D) African.

431 Dance Kinesiology Seminar (2)

Prereq: 331 Assists student to construct anatomically sound and functionally effective dance class.

440 Practicum in Teaching Dance II (1-2)

Prereq: 240 and perm. Student teaching under supervision.

441 Teaching Dance I (3)

Prereq: perm. Principles of teaching dance and their practical application. Dance for children.

442 Teaching Dance II (2)

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adolescents.

443 Teaching Dance III (2)

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adults.

460 Senior Seminar (2)

Prepares students for the field of dance and related careers. Skills in writing, networking, and oral presentation, as well as the ability to access available resources, are refined.

471 History of Dance I (4) (2H)

Development of Euro-American dance in the 20th century with focus on contemporary dance through the present.

472 History of Dance II (4) (2H)

Global dance forms: Study of dances in historical and cultural contexts, their functions in society and relationships to contemporary artistic expressions. Focus on topics from traditional and recent research in world dance.

473 History of Dance III (4) (2H)

Development of Euro-American dance from classic times through 20th-century ballet, with emphasis on Baroque, Romantic, and Diaghilev periods.

474 History of Postmodern Choreography and Practice

This course explores postmodern dance (1960-present) from theoretical and practical perspectives. Theoretical and historical readings from dance studies, performance studies, and cultural studies on postmodern dance will combine with the application and investigation of choreographic theories in the dance studio. As the dancing draws on an everyday or pedestrian movement vocabulary, no prior dance experience is necessary. This course will cover artists such as Yvonne Rainer, Trisha Brown, David Gordon, and Bill T. Jones. The postmodern dance aesthetic is interdisciplinary in nature: choreographers frequently collaborate with artists from other disciplines, such as music, visual arts, and theatre. This course is appropriate for students interested in intellectual and experiential artistic practices.

480 Production Problems for Dance Theater (3-6, max 6)

Prereq: perm. Includes choreography, performance, and production aspects of senior projects and other dance events.

488 Dance Choreography and Video Techniques (2)

Prereq: perm. Designed to increase awareness of the possibilities of video in dance, both as a recording tool and a creative tool. The basics of video production and digital editing will be introduced in order for dance choreographers to become familiar with video technology applicable to dance.

490 Independent Study (1-10)

Prereq: perm.

494 Internship (1-16)

Prereq: perm. Provides credit for internship experience in which some dance majors may participate. Internship allows individual to gain actual experience in field of dance and related areas, e.g., apprentice/performing, technical production, arts administration.

495 Special Topics in Dance (1-4)

Special topics relating to the choreography, technique, production elements, or aesthetics of historical or contemporary dance forms.

Deaf Studies and Interpreting (DSI)

The following courses for the proposed A.A.S. in deaf studies and interpreting are available only on the Chillicothe campus:

111 Sign Language and Deaf Culture I (4)

Different types of deaf and the different languages utilized by each. Includes signing paragraphs, using ASL, PIDGIN, and SEE, studying culture, and participating in short community-based research projects.

112 Sign Language and Deaf Culture II (4)

Prereq: 111. Continuation from 111 of deaf languages and culture. Includes more than 300 additional signs, continuing to use ASL, PIDGIN, and SEE, reverse interpreting paragraphs, and studying idioms and slang terms.

113 Sign Language and Deaf Culture III (4)

Prereq: 112. Continuation from 112 of deaf languages and culture. Includes additional signs, continuing to use ASL, PIDGIN, and SEE, further reverse interpreting of paragraphs, and translating idiom and slang paragraphs. Discusses deaf in mental institutions, prisons, and the court system. Students interpret for University functions and programs.

120 Introduction to Deaf Studies and Interpreting (1)

First of three assessments in deaf studies and interpreting degree program, evaluating knowledge of various sign languages used, types of deaf people using each of the sign languages, cultural aspects of deafness, speed in signing, comprehension speed, and interpreting and reverse interpreting skills. Offers basic introduction to knowledge and skills required for successful completion of the degree. Covers history of interpreting, career opportunities, ethical considerations, and includes discussion of program courses, seminar paper, and second and third assessments.

161 Orientation to Deafness (3)

Broad overview of field of deafness, focusing on education perspectives, psychosocial precepts, communication modes, vocational opportunities, support services, and recent technological advances. Benefits parents, educators, vocational rehabilitation counselors, interpreters, and other professionals who come into contact with the deaf and hearing impaired community.

191 Interpreting as a Profession (1)

Prereq: 120. Second of three assessments in deaf studies and interpreting degree program, requiring 50-60 percent improvement from 120 in speed in signing, knowledge of culture, and interpreting and reverse interpreting skills. Includes introduction to practicums, professionalism of interpreting (dress, demeanor, professional organizations), national certification, and ethics of the profession and their impact on personal views.

211 Sign Language and Deaf Culture IV (4)

Prereq: 113. Additional signs and advanced usage of previous signs from first-year sequence. Includes interpreting for University functions, community meetings, and business situations.

212 Sign Language and Deaf Culture V (4)

Prereq: 211. Signs beyond 211 and a larger role in interpreting situations. Additional cultural information (family relationships, sexual relationships, and more) enhances abilities to work with and for the deaf in any context.

213 Sign Language and Deaf Culture VI (4)

Prereq: 212. Signs beyond 212 and specific interpreting within community. Includes cultural information such as family dynamics, time orientation within mental health situations,

and ethics for interpreting. Covers sexual signs, regional signs, and idioms specific to area.

221 Practicum I (2)

Prereq: advanced standing, perm. Opportunity to work in teaching, training, and/or interpreting situations under supervision. Provides experience in program development and deals with professionalism in interpreting. May include student-teaching sign language classes within community and businesses, observation of professional interpreters, and critiques of videotaped interpreting situations.

222 Medical Personnel and the Deaf (4)

For those in the emergency care field or studying to be an interpreter. Covers 150 essential signs for immediate communication, different types of deaf, different sign languages, working with deaf family members, legal issues for hospitals and nursing homes, sexual signs involved in rape cases and abuse, cultural issues working with male/female deaf, and more.

224 Interpreters and Interpreting (3)

World of interpreting for the deaf, including detailed code of ethics and responsibilities imposed on those who interpret in all fields: platform interpreting, educational interpreting, medical interpreting, religious interpreting, etc. Discusses interpreter role within the courtroom, including the interpreter oath and its significance to the court, the interpreter, and the deaf.

226 Practicum II (2)

Prereq: advanced standing, 221. Opportunity to interpret for the deaf without immediate supervision, extending knowledge of interpreting in specific contexts. Ability to work within community is enhanced through responsibility for teaching basic sign language classes and through critiques of videotaped interpreting situations.

260 Critical and Traumatic Situations (3)

Sexual abuse of deaf children, including causes, incident rate, interviewing techniques, investigation problems, and involvement of law enforcement agencies, schools, hospitals, DARE, and crime prevention programs. Also discusses deaf in disaster situations, emergency response centers, first responders, and problems of victimization of deaf in research projects.

286 Study of Deaf Culture (3)

Sociocultural aspects of deafness, addressing issues of deaf communities such as leadership roles, political activity, and organization. Examines the functioning of deaf within social institutions.

288 Seminar in Deaf Studies (2)

Prereq: advanced standing, perm. Scholarly paper of no less than 50 pages is required for completion of the associate's degree in deaf studies and interpreting. Involves choosing research topic related to field of work, and engaging in library research, interviews, questionnaires, and other forms of inquiry.

291 The Professional Interpreter (1)

Prereq: 191. Third and final assessment in deaf studies and interpreting degree program, serving as a capstone. Requires 45%-50% improvement from 191 and the ability to interpret effectively in any situation for any of the three types of deaf. Covers introduction to Web sites regarding deaf, resume preparation for job interviews (including role plays), discussion and evaluation of past and current assessments, and in-depth review of ethics of interpreting and the Americans with Disabilities Act.

298A-E Special Topics (1-4, max 12)

Opportunity to explore topics related to deaf studies either on an individual basis or in a structured course.

Ecology

See Biological Sciences or Environmental and Plant Biology.

Economics (ECON)**103 Principles of Microeconomics (4) (2S)**

Prereq: MATH 101 or higher math placement. Basic

theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. Analysis of how the capitalistic system determines what, how, and for whom to produce.

104 Principles of Macroeconomics (4) (25)

Prereq: MATH 101 or higher math placement. Basic theory of national income analysis. Causes of unemployment and inflation. Monetary and fiscal policies of the federal government.

213 Current Economic Problems (4)

Prereq: 103 and 104. Application of economic theory to current economic problems with emphasis on public policy implications.

300 Mathematics for Economists (4)

Prereq: 103 and 104 and perm. Mathematical analysis in economics. Calculus and matrix algebra techniques used prominently in economics literature, together with their application to selected problems in economics.

303 Microeconomics (4)

Prereq: 103 and 104. Price system as allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 104, jr; soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment, and capital formation. Students expected to have understanding of elementary algebra and geometry.

305 Managerial Economics (4)

Prereq: 103, QBA 201, and MATH 163A. Analysis of decision making in enterprise; market environment; measurement of influence of policy and nonpolicy variables on sales and costs; sales, cost, and profit forecasting; empirical studies of market structure and pricing; includes regression analysis.

307 History of Economic Thought (4)

Prereq: 103 and 104. Evolution of major economic doctrines: mercantilists, physiocrats, Adam Smith and classical school. May also cover historical school, Austrian school, Alfred Marshall and neoclassicists.

312 Economics of Poverty (4)

Prereq: 103 and 104. Incidence, causes, and measurement of poverty worldwide. Analysis of population growth, demand for food, environmental issues, and poverty reduction strategies.

313 Economics of the Environment (4)

Prereq: 103. Economic analysis of such environmental matters as air, water, and noise pollution, population growth, and land use. Emphasis placed on use of economic theory and empirical research in evaluating environmental policies.

314 Natural Resource Economics (4)

Prereq: 103, MATH 163A. Explores the economic aspects involved in the extraction and utilization of both renewable and nonrenewable natural resources. Topics include the economics of oil and mineral extraction, groundwater use, agricultural practices, forestry, and fisheries. It also examines the allocation of property rights and economic benefits and costs of natural resource use.

315 Economics of Health Care (4)

Prereq: 103 and 104. Demand for medical care, supply behavior of profit and nonprofit agencies, market structure, adverse selection, public and private health insurance.

316 Economics and the Law (4)

Prereq: 303 or 305 or perm. Major topics are property, contracts, and torts. Class time is divided between economic analysis of these topics in the abstract and actual legal cases that involve these topics.

320 Labor Economics (4)

Prereq: 103. Demand for labor, supply of labor, household production, compensating wage differentials, education and training, discrimination, unions, and unemployment.

322 Economics of Human Resources (4)

Prereq: 103. Investigation of the decisions individuals and families make regarding education, marriage, fertility, labor supply and child care as well as the effects of public policy on these decisions.

332 Industrial Organization (4)

Prereq: 303 or 305. Market structures, market conduct, and social performance of industries. Emphasis upon firms' strategic behavior in price and nonprice competition. Topics include oligopolistic pricing, strategic entry deterrence, location strategies, product quality, advertising, and research and development. Economic welfare implications of firms' behavior examined.

334 Economics of Antitrust Law (4)

Prereq: 303 or 305. Explores the economic behavior of the firm subject to antitrust laws. Topics include collusion, price discrimination, vertical restraints, and other behavior where the intent may be to monopolize a market. Also examines institutional incentives and economic benefits and costs of antitrust laws.

335 Economics of Energy (4)

Prereq: 103. Applies economic theory to analyzing public policy issues regarding energy production and use—including such topics as price controls, import dependency, conservation, supply outlook, and industry concentration.

337 Government Regulation of Business (4)

Prereq: 303 or 305 or perm. Why does the government regulate business? Reasons include the inefficiencies of market power, considerations of fairness, excessive competition, natural monopoly, externalities, and reducing transactions costs.

340 International Trade (4)

Prereq: 103. International trade patterns, theories of absolute and comparative advantage, classical and modern trade theory, tariffs, quotas, nontariff barriers, preferential trading arrangements.

341 International Monetary Systems (4)

Prereq: 104. How exchange rates are determined, fixed vs. flexible rates, government intervention, fiscal and monetary policy in open economy, transmission of inflation and unemployment among nations, international capital movements, covered interest arbitrage, forward exchange, Euro-currency markets.

342 International Economic Policy (4)

Prereq: 340 or 340. Current economic developments of foreign and U.S. economic policy. Commercial treaties and tariff policy; exchange rate instability; balance of payments problems including LDC debt situation; international liquidity issues; trade relations among industrial, underdeveloped, and Soviet-bloc countries; multinational corporations; roles of institutions such as World Bank, International Monetary Fund, and GATT.

343 Financial Economics (4)

Prereq: 360 or 304; 305 or 303; MATH 163A or MATH 263A. In a free economy, income earners' savings flow directly and through intermediaries to investors who use the proceeds to increase capital, the engine of growth. Intermediaries such as banks, brokers, and exchanges, create instruments such as equities, bonds, mutual fund shares, and their derivatives, which trade in secondary markets. This course examines the interrelationships between institutions, instruments, participants, strategies, and markets.

350 Economic Development (4)

Prereq: 103 and 104. This course examines classic and modern theories of economic development and growth focusing on applications to the developing world. Special topics may include debt, trade, reform, foreign investment, education, health, the role of the state, and international aid.

351 Agricultural Development (4)

Prereq: 103 and 104. Patterns of agricultural development: technological and demographic changes in agriculture; socioeconomic problems; marketing arrangements; case studies of specific agricultural development projects.

352 Economic History of the United States (4)

Prereq: 103 and 104. Economic factors in devel-

opment of U.S. including historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to present.

353 European Economic History (4)

Prereq: 103 and 104. Economic growth of developed countries. Focus on industrial revolutions in Great Britain, France, Germany, and the former Soviet Union. Historical experience of these countries related to various theories of economic change.

360 Money and Banking (4)

Prereq: 104. Role of money and banking system in determination of national income and output. Monetary theory and policy emphasized.

370 Comparative Economic Systems (4)

Prereq: 103 and 104. Theoretical and institutional characteristics of capitalism and socialism with specific emphasis on prevailing economic systems in U.S., Great Britain, and the former Soviet Union.

381 Introduction to Economic Statistics and Econometrics (4)

Prereq: 103 and 104. Statistical methods are developed within an economic context. Fundamental statistical topics include descriptive statistics, basic probability theory, random variables, sampling, estimation, and hypothesis testing.

382 Economic and Financial Analysis with Statistical Packages (4)

Prereq: 104 and either 381 or QBA 201, PSY 221, POLS 482, or MATH 250/251. SAS language, using real life small and large data sets and applying SAS procedures to conduct statistical and financial analysis of economic and business data. Interpretation of statistical output of estimated functions and written reports for rational decision making using business and economic analysis.

406 Monetary Theory and Policy (4)

Prereq: 303 (or 305) and 304. Emphasis on monetary economics. Money demand and supply theory and policies for minimizing cyclical fluctuations in economic activity.

425 Public Policy Economics (4)

Prereq: 104. Survey of economic approach to analyzing public policy issues. Uses concepts of welfare economics, public choice economics, and cost-benefit analysis, as applied to sample of policy subjects.

430 Public Finance (4)

Prereq: 303 or 305 or perm. Role played by government as user of economic resources and redistributor of incomes. Some questions explored: need for government's entry into economy, optimal size of government, selection of tax and expenditures schemes, and effects of government economic activity on private sector.

431 Economics of Transportation (4)

Prereq: 303 or 305. Economics of transport pricing; regulations of transport and national transport policy.

444 Futures Markets (4)

Prereq: 360 or FIN 327 or perm. Contracts, trading, institutions, and strategies, including hedging and speculation. No credit if FIN 444 taken.

455 African Economic Development (4)

Prereq: 350 or perm. Economic characteristics of African societies as traditional economies and in process of modernization.

473 Economics of Southeast Asia (4)

Prereq: 350 or perm. Economic characteristics, development problems, strategies, and prospects of countries of Southeast Asia.

474 Economics of Latin America (4)

Prereq: 350 or perm. Economics of Latin American countries, prospects for economic development of the region, nature and origin of institutional obstacles to economic change. Economic heritage of colonial period and subsequent evolution of economic institutions, resources of the area and utilization, and trends in economic activity and policy in post-WWII period.

482 Topics in Econometrics (4)

Prereq: 303 or 305, 381, MATH 163A or calculus, or perm. Basic linear regression models are explored within an econometric context. Simple and multiple linear regression models are introduced

under classical assumptions and developed in relation to heteroskedasticity, autocorrelation, multicollinearity, and specification errors. Models with binary regressors, models with qualitative dependent variables, and the simultaneous equations model are introduced. Computer assignments provide experience in empirical social science research.

485 Applied Economic Methodology (4)
Prereq: sr standing; no credit if ECON 385, ECON (303) or 305, and ECON 304 and ECON 381 (or Q8A 201). Statistical testing of economic hypotheses employing linear regression. The economic models tested are those commonly employed in the microeconomic and macroeconomic literature. *Tier III equivalent course.*

491 Seminar (3-5)
Prereq: perm. Selected topics of current interest in economics area

493 Readings (1-15)
Prereq: perm. Readings in selected fields of economics. Topics selected by student in consultation with faculty member.

493X Readings (1-15)
Prereq: perm. Study abroad

495 Research (3-5)
Methodology, analysis of data, and preparation of research findings.

497 Independent Research (1-15)
Prereq: perm. Research in selected fields of economics under direction of faculty member

Education

All programs and courses in the College of Education satisfy the standards of the Ohio State Department of Education and NCATE. Consult your advisor regarding program requirements and scheduling. In particular, note that some pairs or groups of professional education courses must be taken concurrently. Address questions to Student Services, McCracken Hall 124.

Each course in education may be taken no more than twice.

Counselor Education (EDCE)

201 Career and Life Planning Seminar (3)
Designed to provide knowledge and skill in career and life planning for fr and sophs, especially for those who are undecided about college major and career. Emphasis on identifying strengths, clarifying values, exploring career options, and developing decision-making skills. Special section for Adult Learning Services students only: designed to provide knowledge and skill in career and life planning especially for adult considering job or career change. Emphasis on identifying skills, interests, experience, and values in relationship to new career choices and options.

400 Special Topics in Guidance, Counseling, and Student Personnel (1-5)

Prereq: perm. Independent studies, specialized projects, and seminars on following special topics: alcohol and substance abuse; biofeedback, self-control, and management of stress; marriage and family issues; assertiveness; human sexuality; and Adlerian theory, method, and research (may be repeated for max of 18 hrs).

410 Human Relations (3)
Prereq: jr. Study and practice of developing healthy and mutually satisfying interpersonal relationships. Lecture and discussion groups focus on dynamics of human relationships, factors fostering effective interaction, and significance of self concepts in human communication. Topical headings include value clarification, games people play, self disclosure and trust, conflict resolution, sexuality, prejudice, death and dying, multicultural education, sexism, constructive use of anger, etc.

420 Guidance Practices in Elementary Schools (4)
Need, scope, and nature of elementary guidance surveyed. Guidance approaches and procedures examined for their usefulness in working with children and parents. Roles of elementary school counselor and other pupil personnel specialists

reviewed for their contribution to growth and development of children. Opportunity for students to achieve greater self-understanding through involvement in self-appraisal.

430 Guidance in American Secondary Schools (4)

Same as 420 but pertains to secondary schools.

440 Foundations in Group Dynamics (4)
General principles and basic techniques of group dynamics. Interaction in human relations situations that occur in agency settings, business, classrooms, community, resident living, and various types of professionally led training, counseling, and growth groups. Through both cognitive and affective learning opportunities, students learn to understand and use group dynamics principles in areas of personal and professional interaction. Students attend weekly cognitive seminars as well as participate in ongoing group lab.

C.A.R.E. Partnership (EDCR)

101 Democracy and Education (4)
Prereq: admission to CARE program. Coreq: 101L. An introduction to the unique role American public schools play in preparing citizens for democracy. Particular attention will be paid to the role of the teacher in the process, as well as to historical and sociological precedents.

101L Democracy and Education: Field Experience (2)

Prereq: admission to CARE program. Coreq: 101. Field experiences to complement EDCR 101 Democracy and Education. Will involve several school placements at differing classroom levels to promote comparison and analysis.

201ABC Childhood in America (4)

Prereq: 101. Introduces students to children and their characteristics at various levels of development. Students are also introduced to and encouraged to examine factors that influence children's learning in the schools, such as families, neighborhoods, race, culture, gender, and socioeconomic status. Students examine values and belief systems of themselves and children, as well as identify elements of successful parenting.

210 Introduction to Teaching in a Democratic Classroom (4)

Prereq: 101. Coreq: 210L. The purpose of this course is to identify the characteristics of a democratic classroom and to develop student skill in the creation of a democratic learning environment. Students examine a variety of teaching models including explicit teaching and cooperative learning, and begin to develop competence in their use.

210L Introduction to Teaching in a Democratic Classroom Field Experience (2)

Prereq: 101. Coreq: 210. This practicum accompanies EDTE 210 and provides students with field experience in the classroom. Classroom assignments include observation, tutoring, small-group instruction, and other appropriate preservice experiences.

310 Advanced Methods for the Democratic Classroom (4)

Prereq: admission to CARE program and 210. Coreq: 310L. In-depth exploration of several teaching methods utilized in progressive, democratic classrooms. Builds on introduction to these methods in EDTE 210.

310L Advanced Methods for the Democratic Classroom Lab (2)

Prereq: admission to CARE program. Coreq: 310. Field experience utilizing methods gained in EDTE 310.

Teacher Education (EDTE)

150 (4)
This survey course is an introduction to the teaching profession. Candidates engage in a variety of experiences that broadly explore the purposes of schools in society and the knowledge, dispositions, and performances required to be an effective teacher today.

200 Learning, Human Growth, and Development (6)

Prereq: Admission to Professional Education.

Coreq: 201, 202. Provides a general knowledge about human learning as it relates to the life cycle from school age to young adulthood. Designed to provide preservice teachers with a fundamental knowledge of human growth and development (physical, social, affective, and cognitive) and theories of learning.

201 Characteristics of Learners with Exceptionalities (3)

Prereq: Admission to Professional Education. Coreq: 200, 202. Covers a range of topics in the special education process, including identification, referral, assessment procedures, service delivery options, parental involvement, the law and legal issues, supports for inclusion, roles of agency and related service personnel, and characteristics of all types of learners with exceptionalities, including gifted, from preschool through young adulthood. No credit for both 201 and EDSP 271.

202 Field Experience in Education (2)

Prereq: Admission to Professional Education. Coreq: 200, 201. Students apply principles of typical child development, learned in 200, and exceptional development of children and youth, learned in 201, as they observe, assist, adapt tests and lessons, and tutor a diverse range of pupils in a field setting.

220 Phonics and the Structure of Language (5)

Prereq: admission to Professional Education. Course provides information and training in the foundations of phonics instruction. It explores the historical, linguistic, and instructional framework related to phonics skill development.

325 Literature-Centered Developmental Reading Instruction (5)

Prereq: 220, adv standing. Provides preparation for teaching of developmental reading in the middle school. The course emphasizes a literature-centered approach to the teaching of reading and emphasizes the development of proficient reading through a stage model of reading. Text and supplementary readings, lecture, demonstration, discussion, multimedia resources, observations and participation in schools, and projects for practical competence are all part of the class procedures.

371A Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Middle (4)

Prereq: 200, 201, 202. Designed to develop skills needed by educators at the elementary and middle levels to work with learners with exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modifications, instructional and management adaptations, effective collaboration strategies, accessing related and support services, and skills required for instructing in and managing an inclusive classroom.

371B Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Secondary (4)

Prereq: admission to adv standing. This course and clinical/field experience are designed to develop skills needed by educators at the adolescent to young adult level in order to work with learners who have exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modifications, selection and appropriate uses of reading materials, instructional and reading adaptations, classroom management adaptations, effective collaboration strategies, accessing related and support services, and skills required for instructing and managing an inclusive classroom.

371C Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Early (4)

Prereq: Professional Education and EDSP 271. Designed to develop skills needed by early childhood educators to work with families and learners who have exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modification, instructional and management adaptations, effective collaboration strategies, accessing related and support services, and skills required for instructing and managing an inclusive classroom.

420 Teaching Reading in the Content Area (4)

Prereq: adv standing. Materials, methods, and techniques for teaching adolescent learners of

various abilities. Emphasis on diagnosis of reading difficulties and adaptation of materials and teaching methods for content area instruction. Lab included as part of the lecture class.

421 Foundations of Reading Instruction, Diagnosis, and Remediation for Classroom Teachers (4)

Prereq: 220, adv standing. Designed to provide classroom teachers a theoretical and practical understanding of the foundations of reading instruction, diagnosis, and remediation. An exploration of these foundations as they affect a wide diversity of students. Includes practical hands-on opportunities for evaluating, assessing, and remediating one student's reading ability.

422 Diagnosis and Treatment of Reading Disabilities (4)

Prereq: EDSE 420 or EDTE 421 or EDEC 421. Correlates of variability in reading proficiency. Incidence of retardation and disability. Proposed causes of failure and concept of multiple causation. Specialized materials and instructional efforts. Systematic observation of causes of reading disability and preparation of case report.

423 Reading Laboratory Practicum (4, max 12)

Prereq: sr, 422. Application of developmental approach to problem cases in reading instruction, participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases and preparation of report (weekly group discussion period, lab sessions arranged).

492 Workshop in Curriculum and Instruction (0.5-15)

Prereq: perm. Staff. Designed to provide practicing teachers and other instructional personnel with in-service education directed toward their identified needs. Facilitates offering of short courses, work-shops, and summer institutes. Areas of concentration currently available: (A) Language Arts, (B) Social Studies, (C) Science, (D) Mathematics, (E) Reading, (F) Kindergarten, (G) Individualizing Instruction, (H) Team Teaching, (I) Interaction Analysis, (J) Developing Behavioral Objectives, (K) Curriculum Development, (L) Interdisciplinary Topics, (M) Special Topics, (N) Special Education Topics, (O) Supervision of Instruction, (P) Education for Gifted.

492K Workshop in Curriculum and Instruction (2)

Prereq: 101, 210, 310. An in-depth examination and synthesis of information learned in both special CARE classes and in general education classes with emphasis on how this information can be used in the classroom and integrated into the future teacher's teaching strategies.

Education Cultural Studies (EDCS)

301 Education and Cultural Diversity (3)

Prereq: admission to Professional Education. Requires students to observe, analyze, and reflect upon the advantages and problems associated with teaching in a culturally diverse environment. Students study the influences of cultural diversity on education in the United States and develop the skills and attitudes that help them adjust curriculum and instruction to culturally diverse groups.

301L (1)

Coreq: 301. Will apply material learned in 301 in a field experience.

400 School, Society, and the Professional Educator (4) T3

Studies the social, philosophical, ideological, and historical foundations of K-12 education in the United States as they apply to both practical and theoretical issues for the professional educator. Four questions guide inquiries into the foundations of education: Why do we educate? For whom is education intended and designed? What are the personal, social, and cultural effects of education? Who bears the institutional responsibility for education? *Tier III equivalent course.*

Education Computer Technology (EDCT)

203 Technological Applications in Education (4)

Prereq: Admission to Professional Education. Focuses on the use of technology to increase the

effectiveness, efficiency, and appeal of instruction to diverse learners. Major emphasis is given to instructional computing for production and presentation.

Early Childhood Education (EDEC)

206 Introduction to the Integrated Curriculum (4)

The purpose of this course is to introduce the undergraduate students in early childhood to the integrated curriculum for young children between the ages of three and eight years. The relationship among how young children learn, what they find in their environment and the integration of their curricula is examined.

225 Emergent Reading and Literacy (4)

Prereq: EDTE 220. Emphasizes the development of reading and literacy from a global view of language, thinking, and learning. Attention is given to methods and materials with emphasis on the use of literacy within the framework of age and individual appropriateness.

306 Teaching Strategies and Transitions for Young Children (3)

Prereq: adv standing.

319 Reading and Literature in the Early Childhood Classroom (5)

Prereq: EDTE 220. Designed for undergraduate students seeking licensure in early childhood. Focuses on the development of reading and the role of literature in that process.

330 Teaching Young Children Mathematics (3)

Prereq: jr., admission to Professional Education. Coreq: 330L. Examination of methods and materials appropriate for teaching mathematics to young children. Emphasis placed on using developmentally appropriate experiences to provide for diversity of learners, including those with disabilities. Designed to be taken concurrently with 330L.

330L Teaching Young Children Mathematics—Field (1)

Coreq: 330. Application of concepts and skills from EDEC 330. Students observe and teach mathematics lessons in appropriate settings under the supervision of the course instructor. Students demonstrate proficiency in the use of mathematical models and manipulative teaching aids.

340 Teaching Science for Young Children (4)

Prereq: adv standing in teacher education; 12 hours of science from approved list; completion of one course in each of the following science areas: Life, Physical, Earth. Coreq: EDEC 340L. Emphasis on constructivist science teaching through hands-on inquiring processes. National and state standards examined and applied. Science equipment, instructional resources and technology, and safety procedures emphasized.

340L Teaching Science for Young Children—Lab (1)

Coreq: 340. Will apply material learned in 340 in field and/or clinical lab setting.

350 Teaching Social Studies in Early Childhood (3)

Prereq: Early Childhood major, adv standing. Coreq: 350L. The foundation of social studies is to help students gain new understandings of the world through discourse and activities which emphasize applications to authentic issues and problems of human society. Problem solving, critical thinking, analysis, negotiation and collaboration are part of the teaching of social studies.

350L Teaching Social Studies in Early Childhood—Field (1)

Prereq: Early Childhood major, adv standing. Coreq: 350. Field experience in classrooms for three year olds through third grade. Will apply the theory and application learned in 350 throughout the quarter.

421 Observing Young Children for Reading Strategies and Skills (2)

Prereq: 225, EDTE 220. Coreq: 421L. Learn to observe children, keep running records and conduct an informal reading inventory. Appropriate instruction is based on these

assessment procedures. Learn to record results for reporting to parents and other appropriate adults.

421L Observing Young Children for Reading Strategies and Skills —Lab (2)

Coreq: 421. Lab experience accompanying 421.

Educational Administration (EDAD)

452 Problems in Administration of Education (1-4)

Prereq: perm. Variable topic course for independent study, institutes, and workshops.

Educational Media (EDM)

201 Use of Library Resources I (3)

Designed to acquaint students with resources available in academic library. Students learn analyze information needs and to develop systematic approach toward solution.

397T Media Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

International and Comparative Education (EDIC)

205 Learning from Non-Western Cultures (4)

Prereq: soph or perm. Exploration of alternative "ways of seeing" and "ways of knowing," esp. in cultures of the non-Western world (i.e., Africa, Asia, Latin America). Building skills in personal investigations of life and learning in other cultures.

420 Comparative Cultures and Education (4)

Prereq: perm. Emphasis on distinctive cultural, economic, and political forces which shape patterns, problems, and roles of education in some selected developed and developing nations. These include U.S., some European countries, and at least one African and/or Asian nation where former or present Western culture has impact. Assessment of this impact especially on educational developments.

425A Education and Development in Africa (4)

Prereq: perm. Interdisciplinary course focusing on tradition and change in African societies, problems of political independence, economic development, cultural values in transition, tribalism and nationalism, and role of Africa in world peace and international cooperation. Tradition and change in African education, landmarks in African educational developments, and role of education in economic and technological development. Issues and problems in African education.

425B Education and Development in Asia (4)

Prereq: perm. Same emphasis as 425A on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

425C Education and Development in Latin America (4)

Prereq: perm. Same emphasis as 425A-425B on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

450 Teaching Strategies for Cultural and International Understanding (4)

Prereq: sr, perm. Psychological and sociological foundations of cultural values and ways of life investigated. Strategies for developing cross-cultural understanding and cooperation studied. Emphasis on innovative approaches to learning for elementary and secondary school pupils.

Middle Childhood Education (EDMC)

300 Middle Childhood Instructional Process and Curriculum (4)

Prereq: admission to adv standing. Further understanding of the middle child and the middle school. Lecture, activities, and field experiences revolve around developmentally appropriate teaching, context based assessment, supportive learning theory and application, and structure of the middle school.

301 Middle Childhood Education and Curriculum (5)

Prereq: 300. Specifically designed for middle childhood preservice teachers with a focus on social foundations of teaching and learning, with emphasis on middle childhood curriculum, middle school organization, and structure.

310 Teaching Language Arts in the Middle Childhood Grades (4)

Prereq: 300 or 301. Provides basic information in language development, oral and written language, and language mechanics. Provides strategies for teaching the language modes through an integrated approach. Stresses assessment in authentic settings.

310L Teaching Language Arts in the Middle Childhood grades (lab 1)

Coreq: EDMC 310. Lab experience accompanying 310.

321 Children's Literature for Middle Childhood (4)

Prereq: admission to adv standing. This course treats the body of literature by genre, appropriate for children from eight to fourteen years. It includes various techniques for utilizing children's literature in school settings.

330 Teaching Mathematics in Middle Childhood Grades (4)

Prereq: 300 or 301, admission to adv standing. Coreq: 300L. Familiarizes preservice educators with the mathematics curriculum of grades 4-9 and with instructional techniques appropriate for the delivery of the curriculum. The course provides a solid foundation in teaching and learning applied to mathematics, complemented by rich experiences in working with students in actual school settings. Designed to extend preservice teachers' understanding of mathematical content and methodology so that mathematics instruction is seen in terms of active students making appropriate use of technology in learning math as a relevant and coherent body of knowledge, which relates to diverse cultures. The course is designed to be taken concurrently with middle childhood lab course.

330L Teaching Mathematics in Middle Childhood Grades-Field (1)

Coreq: 330. Application of concepts and skills from 330. Observe and teach mathematics lessons in appropriate settings under the supervision of the course instructor. Demonstration of proficiency in the use of mathematical models and manipulative teaching aids.

340 Teaching Middle-Level Science (4)

Prereq: 300 or 301; 22 hrs in science. Coreq: 340L. Emphasis on concepts and inquiry processes for middle-level children as recommended by state and national standards. Topics include: scientific literacy; applied constructivist learning theory; multicultural, gender, and exceptional learner equity practices; authentic assessment of the middle-level learner; safety and classroom management; uses of curriculum supplements and multimedia resources; effective questioning skills; and selection of appropriate uses of texts and demonstration.

340L Teaching Middle-Level Science-Lab (1)

Coreq: 340. Lab experience accompanying 340.

350 Teaching Social Studies in Middle Childhood Grades (4)

Prereq: 300 or 301. Coreq: 350L. The foundation of social studies is to help students develop new understandings of the new world through discourse and activities that emphasize applications to authentic issues of human society. Problem solving, critical thinking and analysis, negotiation and collaboration are part of the teaching of social studies content. Using national and state standards, course emphasizes integrated social studies for curriculum organization in grades 4-9.

350L Teaching Social Studies in Middle Childhood-Lab (1)

Prereq: 300 or 301. Coreq: 350. Field experience in 4th-9th grade classrooms will apply the theory and application learned in 350 throughout the quarter.

490 Independent Study (1-5)

Prereq: adm to EDMS Program, jr. Independent study provides the student an opportunity to

focus on some special interest, concern, problem, research, and/or advanced study in a particular field under staff guidance. Suggested readings and other resources depend upon need and interest of the individual, frequent conferences, preparation of final report.

Professional Laboratory Experience (EDPL)**360 Field Experience in Elementary or Secondary Schools (2)**

Prereq: jr, perm. Observation and participation in elementary and secondary schools. Prior approval must be secured from Field Experience Office in May for those planning experiences in August-September period and in November for those planning participation in December. May be repeated.

361 Field Service in Education (2)

Prereq: soph. Participation in community agencies, summer camps, recreation programs, Head Start, and various school-related programs. Arrangements must be made in Field Experiences Office prior to participation.

458 Student Teaching in Early Childhood (7)

Assigned responsibility for teaching under supervision of master teacher in classroom in preschool through third grade for one quarter, full-time. Concurrent registration for EDPL 458, 459, and 456 is required of all early childhood education majors for full-time student teaching experience.

459 Student Teaching in Early Childhood (6)

Continuation of EDPL 458. See 458 for description.

460 Observation and Participation in Elementary or Secondary Schools (3)

Prereq: perm. Extensive participation in school program extending over period of one quarter, designed primarily for students with some classroom teaching experience, especially students from other countries.

461 Student Teaching in Middle Childhood (7)

Prereq: perm. Assigned responsibility for teaching under supervision of master teacher in classroom in 4-9 range for 1 qtr, full-time. Concurrent registration in 461, 462, and 465 is required of all middle childhood education and intervention specialist majors. Concurrent registration in 461, 463, and 465 is required of majors in arts, music, and physical education.

462 Student Teaching in Middle Childhood (6)

Prereq: 461. Continuation of 461. See 461 for description.

463 Student Teaching in Secondary Schools (6)

Prereq: perm. Assigned responsibility for teaching under supervision of master teacher in classroom in 7-12 range for one quarter, full-time. Concurrent registration in 463-464-465 is required of all majors in secondary academic areas, home economics, and industrial arts. Majors in art, music, and physical education must register concurrently for 461, 463, and 465.

464 Student Teaching in Secondary Schools (7)

Prereq: 463. Continuation of 463. See 463 for description.

465 Student Teaching Seminar (3)

Analysis and interpretation of student teaching experience. Problem-centered discussion of major areas of concern directly related to classroom teaching. Structured discussion of unit and lesson planning, evaluation, classroom management, pupil adjustment, effects of recent legislation upon classroom teacher, position procurement, professional ethics, and professional organizations. Concurrent enrollment for 13 quarter hours credit in student teaching required.

466 Student Teaching for Advanced Students (6-9, max 9)

Prereq: perm. Supervised observation, participation, and limited teaching; open only to elementary education degree candidates and selected secondary education and special educa-

tion with a minimum of three years of prior teaching experience.

Secondary Education (EDSE)**297T Secondary Education Tutorial (1-15)**

Prereq: Honors Tutorial College and perm.

298T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

299T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

350 Secondary School Planning and Instruction (4)

Prereq: adv standing. Designed to enable preservice educators to design, implement, evaluate, and reflect upon the processes of secondary school teaching and learning. Course focuses on systematic planning, methods of direct instruction, and effective classroom interaction. Course is specifically designed around the four domains of Praxis III with particular focus placed upon domain A—organizing content—and domain B—creating a learning environment. Analyses used for planning appropriate instruction. Course includes clinical and field experiences in secondary schools.

351 Secondary School Teaching and Learning (5)

Prereq: EDSE 350 and 371B. Extends upon the content of EDSE 350 and EDTE 371B, this course further develops student's personal and philosophical beliefs about education, teaching, and learning, and explores secondary school curriculum development and issues and challenges facing secondary educators. The course helps preservice teachers build a repertory of teaching and assessment strategies by applying multiple methods of instruction, content differentiation and constructivism through hands-on activities; furthers their knowledge of classroom management strategies and communication with students and parents; provides them with skills and knowledge to teach content literacy; and helps them identify critical legal issues concerning students and teachers. Praxis III domains are addressed in student-developed learning lessons. Particular emphasis is given to domain C (teaching for student learning) and domain D (professionalism). Topics covered address all aspects of a teacher's first year experience and life-long learning through a professional development portfolio.

397T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T

398T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T.

399T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T.

440 Secondary School Science Methods (4)

Prereq: 351, jr; perm. Coreq: 440L. Study of curriculum and teaching goals; preparation of inquiry-based lessons; uses of technology in science instruction; science safety, studied and practiced. Written and verbal evaluation of teaching; critiques of instructional resources; creation of a science teacher professional development plan.

440L Secondary School Science Teaching Lab (2)

Prereq: 351; jr; perm. Coreq: 440. This practicum experience in approved school settings enables University students to teach school science students, building from small group instruction to extended teaching of entire classes. College students also may participate in science fairs, contests, and olympiads.

479 Teaching of the Social Studies in Junior and Senior High Schools (4)

Prereq: 350, 351, 371B, 479, and approved for student teaching. Nature, development, purpose, and value of social studies, with emphasis on methods and techniques of instruction. Curriculum development, unit planning, materials of instruction, and evaluation.

490 Studies in Secondary Education (1-5, max 15)

Prereq: perm of dept chair. Honors students or

students seeking honors in secondary education may register for this course.

497T Secondary Education Tutorial (1-15)
Prereq: Honors Tutorial College and perm; 397T.

498T Secondary Education Tutorial (1-15)
Prereq: Honors Tutorial College and perm; 398T.

499T Secondary Education Tutorial (1-15)
Prereq: Honors Tutorial College and perm; 397T and 399T.

Special Education (EDSP)

260 Field Experience in Special Education (Block II) (4)

Prereq: Block I and adv standing. Serve 80 hours as a special education teacher's assistant; follow the teacher's directions and instructional plans for working with pupils until given the responsibility to develop your own plans which may be appropriate near the end of the quarter.

271 Introduction to Education of Exceptional Children and Youth (4)

Comprehensive survey of special education programs emphasizing multidisciplinary approach, integration, and current trends in providing instruction to persons with exceptionalities, and legal rights under the Individuals with Disabilities Education Act are covered. Clinical and/or field experience is included. Middle level, secondary, and special education majors should not register for this course, but should enroll in the Sophomore Block (EDTE 200, 201 and 202). This class is required for early childhood education majors. No credit for both 271 and EDTE 201.

355 Technological Applications in Special Education (4)

Prereq: Block I. Develop knowledge and experience necessary to use microcomputers and other technology with persons who have special needs. Consideration is given to the functionality of hardware, software, and peripherals available for use with these individuals. A focus will be on the concerns of special education teachers in using Computer Aided Instruction and other technology with students including: compensation for sensory, physical, communication, and learning handicaps.

360 Field Experience in Special Education/ Mild to Moderate Educational Needs (4)

Prereq: Block II. Provides a minimum of 80 direct field hours of practical application of concepts and skills introduced in special education in the prerequisite and current block courses; direct observations, planning, and teaching persons with mild to moderate educational needs under the supervision of a cooperating teacher and University supervisor.

361 Field Experience in Special Education/ Moderate to Intensive Educational Needs (4)

Prereq: Block II and adv standing. Provides a minimum of 80 direct field hours of practical application of concepts and skills introduced in special education in the prerequisite and current block courses; direct observations, planning, and teaching persons with moderate to intensive educational needs under the supervision of a cooperating teacher and University supervisor.

370 Classroom Management of Learners with Special Needs (4)

Prereq: Block I and Advanced Standing. Emphasizes applied behavioral techniques to reduce behavioral problems, maximize learning, and increase pupil and teacher rapport for students with mild to moderate educational needs. Procedures will move systematically from teacher control to shared control with learner to learner self-control techniques. Course content and activities also focus on the study of student needs and behaviors with identification of selected management methods. Management techniques are explained, demonstrated, practiced in class, applied in school, and reported in a class seminar and in writing. The course continues to develop teacher skills applicable in field teaching, student teaching, and professional teaching.

373 Curriculum Planning for Learners with Special Needs (4)

Prereq: Block I and adv standing. Development of a curriculum rationale; a philosophy; a model; skills

in curriculum analysis; selection, development, and adaptation of curricula, instructional plans, and materials fitting to the goals of the school and the needs of exceptional learners in special and regular classrooms. Skills are developed in planning a school curriculum, a classroom curriculum, a unit of study, lesson plans, and selection of instructional materials.

374 Nature and Needs of Learners with Mild to Moderate Educational Needs(5)

Prereq: Block I and adv standing. A comprehensive review of the nature and needs of learners with mild to moderate educational needs. A cross-categorical orientation is followed, with an emphasis on the characteristics of the traditional high incidence disability areas of specific learning disabilities, emotional/behavior disorders, and mild mental retardation. Topics include etiology; definitions; culturally sensitive identification and assessment procedures; educational services; cognitive, academic, and social-emotional characteristics; life span ramifications; and current issues in the field.

376 Methods for Learners with Mild to Moderate Educational Needs (5)

Prereq: Block III and adv standing. Organization and methods of teaching including selection, planning, and teaching of appropriate unit based, project based, problem based, community based, cooperative, inquiry and constructive learning with emphasis on implementation of current theory and research to strengthen personal-social-vocational adjustment of children with mild-moderate disabilities. Specific techniques will be presented and practiced on how to develop, remediate, or compensate for student learning disabilities, learning styles, learning modalities, working styles, study skills, and intelligences.

377 Career Development and Transition Planning for Learners with Special Needs (4)

Prereq: Block II and adv standing. A comprehensive overview of the continuum of vocational options at the secondary and postsecondary levels. Procedures for preparing children and adults with exceptionalities to fulfill their career roles as family members, community residents, as well as workers also will be examined.

401 Interventions for Students with Emotional and Behavioral Needs (4)

Prereq: Block III. Development and teaching of intervention strategies for students with mild to intensive educational needs who experience emotional and behavioral difficulties. Specific methods in the areas of behavioral interventions, positive behavioral supports, social skills training, psychoeducational techniques, assessment, collaboration, crisis intervention and communication skills. Related skills in functional behavior assessment and developing behavior intervention plans are covered.

460 Field Experience in Special Education—Mild to Moderate Educational Needs (4)

Prereq: Block III and adv standing. Field-based experience designed to provide supervised practical experience through tutoring children or youth with mild to moderate educational support needs in the public school setting. Field experience includes diagnostic-prescriptive teaching in areas of reading, arithmetic, and language arts.

461 Field Experience in Special Education—Moderate to Intensive Educational Needs (4)

Prereq: Block III and adv standing. Practical application of concepts and skills introduced in the special education Block IV courses: supervising, managing, and teaching persons with moderate to intensive educational needs.

473 The Nature and Needs of Learners with Moderate to Intensive Educational Needs (5)

Prereq: Block I and adv standing. Analyses of etiologies, characteristics, and assessment of learners, with mental retardation, physical and sensory impairments, medical and behavioral disabilities. Medical, behavioral, social, communicative, assistive devices, psychosocial aspects, legal, ethical, cultural, family, self-determination, and advocacy issues are studied

in relation to the characteristics and needs of learners from birth to adulthood with moderate to intensive educational needs.

475 Methods and Materials for Teaching Persons with Moderate to Intensive Educational Needs (5)

Prereq: 473, Block III, and adv standing. Design and application of multifactored/transdisciplinary assessment procedures, curricular adoption/development, IEP transition, technology planning, proficiency testing/alternatives, instructional strategies including age appropriate, functional, and community reference skills; use of positive behavioral supports; educational, adaptive equipment, assistive devices, and instructional materials to promote self-determination. Methods are applied through case-based instruction, hands-on participation, and cooperative teaming.

477 Consultation and Collaboration in Special Education (4)

Prereq: Block III and adv standing. Comprehensive overview and development of professional competencies related to collaboration and consultation in special education. Content includes the consultation process, communicating with professionals and parents, working in teams, legal and ethical issues, interagency and interdisciplinary collaboration, and collaborating with families of students with special needs.

485 Diagnosis and Evaluation of Children with Disabilities (4)

Prereq: Block II. Covers the traditional and non-traditional methods of assessment, screening and classification, collection and appropriate application of clinical data utilizing laboratory and field experiences.

490 Study of Special Education (1-5, max 15)

Prereq: Perm of area coordinator. Independent analysis of problems, special interests, concerns, with assigned and suggested readings, programmed experiences, and preparation of final report, with guidance of faculty member.

Electronic Media (EM)

formerly Radio-Television (RTV)

The following courses are available only at the Zanesville, Southern, and Lancaster campuses for the A.A.S. in electronic media:

101 Introduction to Electronic Media (3)
(fall) Overview of field, facilities, student responsibilities, and career expectations in electronic media.

122 Radio-Television Performance (4)
(spring) To provide overview of responsibilities required for radio and television announcing, and to provide practice and performance situations necessary to develop proficiency in performance skills.

189 Electronic Media Workshop—Non-Majors (1-3)

Short course in specific topics in electronic media applications. Emphasizes hands-on practice on such subjects as visual composition, camcorder operations, video editing, lighting, audio editing, and media digitization. Intended for non-majors.

209 Topics in Radio-Television Engineering (3, max 18)

Intensive study of all functions of electronics as they relate to topics in field. Prepares students who complete all topics to take FCC General Class and/or SBE exams required for broadcast engineering positions. Lab time included with instruction on operation of test equipment and facilities maintenance.

211 Audio Production-Direction (4)
(winter) Principles of basic radio production and development of criteria for evaluation of radio production. 2 lec, 4 lab.

212 Intro to Multimedia Production (4)
Prereq: EM101 Using software applications on both the Mac and PC to create and edit multimedia for desktop publishing, interactive presentations, television/video, and Web site content.

214 Advanced Audio Production/ Performance (2, max 4)

Prereq: 211. (fall, spring) Innovative techniques for production and performance of audio materials. Investigation and analysis of audio production development, and individual problems

215 Intro to Website Design (4)

Prereq: EM212. Webpage creation and Internet functioning, using HTML, integrating media into Webpages, posting pages to the Web, and server functions.

216 Introduction to Video Production (4)

(spring) Principles of basic television production and development of criteria for evaluation of television production. 2 lec, 4 lab.

217 Advanced Video Production (2, max 4)

Prereq: 216. (winter, spring) Applications of studio and field production with emphasis on innovative techniques

218 Intro to Digital Media (4)

Prereq: ART 113, EM 212. Photography and videography basics through development and integration into current digital media applications.

257 Advertising in the Broadcast and Cable Media (4)

(winter) Introduction to principles and practices of advertising and selling of time in electronic media situations. Format includes substantial instruction and interaction with individuals employed in station sales departments, and preparation of materials for sales strategies and campaigns

267 International Media Systems (4)

Surveys the role of the media in representative foreign countries. Media are examined relative to their structure, function, patterns of use, regulation and control, and relationship to other systems. Culture, politics, history, economics, geography, educational levels, and other aspects of the countries will be discussed

288 Electronic Media Workshop—Multimedia

Prereq: 219. Production of multimedia related assignments, monitored and supervised by Electronic Media faculty. Requires minimum number of assigned tasks per week during the term.

289 Broadcast Workshop (1, max 6)

Prereq: EM major. (fall, winter, spring) Production of technically related assignments monitored and supervised within broadcast related services of OU—Zanesville. Requires minimum number of assigned hours of tasks per week during school terms.

290 Radio-Television Internship (1)

Prereq: EM major. Approved assignments in area radio, TV, cable, or media production facilities. Requires contract of duties and time commitment between coordinator, student, and employee. Written evaluation required for course completion.

298 Independent Study (1–4, max 4)

Prereq: EM major, written proposal, and perm. Research projects requiring self-directed study and completion of paper or production relating to electronic media. (May be repeated up to 4 qtrs.)

Engineering, Chemical (CHE)**100 Introduction to Chemical Engineering (2)**

(fall) Overview of the profession's history, present status, and future opportunities. Goals and details of the curriculum. 2 lec.

101 Approaches to Chemical Engineering Problem Solving (3)

Prereq: MATH 263A. (spring) Introduction to goals and methods of problem-solving techniques; uses of computers for calculations, document preparation. Implementation of selected professional software. 2 lec, 2 rec.

200 Material Balances (4)

Prereq: 331. (winter, summer) Applications of chemistry, physics, and mathematics to the solu-

tion of mass balances. Single and multiple unit systems. Reactions, recycle, and bypass. Single and multiphase systems. 3 lec, 2 rec.

201 Energy Balances (4)

Prereq: 200, C or better. (spring, summer) Continuation of 200. Energy balances. First Law of Thermodynamics. Nonreactive and reactive processes. Heats of reaction, formation, and combustion. Phase change operations. 3 lec, 2 rec.

231 Principles of Engineering Materials (4) (2A)

Prereq: CHEM 121 or 151. (fall, winter, spring, summer) Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic, and polymeric materials. 4 lec.

305 Chemical Engineering Thermodynamics (4)

Prereq: 201, C or better. (fall) Application of thermodynamics to chemical engineering problems, including problems in chemicaequilibrium in homogeneous and heterogeneous systems, mixtures, and pure materials. 3 lec, 2 rec.

306 Chemical Engineering Phase Equilibria (4)

Prereq: 305. (winter) Continuation of 305. See 305 for description. 3 lec, 2 rec.

307 Chemical Reaction Engineering I (3)

Prereq: 306, 400. (spring) Application of chemical kinetics and material and energy balances to the design of chemical reaction systems. 2 lec, 2 rec.

308 Chemical Reaction Engineering II (4)

Prereq: 307, 346, 400. (fall) Continuation of 307. See 307 for description. 3 lec, 2 rec.

345 Chemical Engineering Fluid Mechanics (5)

Prereq: 201, C or better, MATH 340. (fall) Fundamental principles of fluid flow. Transportation and metering of fluids. Laminar and turbulent flow of fluids in conduits and past immersed bodies. 4 lec, 2 rec.

346 Chemical Engineering Heat Transfer (5)

Prereq: 345, 400. (winter) Fundamental principles of heat transfer. Conduction, convection, and radiation heat transfer. Heat exchanger design. 4 lec, 2 rec.

347 Mass Transfer and Separations (5)

Prereq: 306, 346. (spring) Fundamental principles of mass transfer. Diffusivities, mass transfer coefficients, stage-wise and continuous-contact unit operations. Absorption, distillation, extraction. 4 lec, 2 rec.

400 Applied Chemical Engineering Calculations (3)

Prereq: 201, C or better, MATH 340. (fall) Application of analytical mathematics and numerical methods to the formulation and solution of chemical engineering problems. 3 lec.

408 Engineering Experimental Design (3)

Prereq: 305, 345, 400. (spring) Application of engineering analysis and statistics to the design of experiments with particular emphasis on continuous processes as typically encountered in the chemical and materials areas. 2 lec, 2 rec.

415 Unit Operations Laboratory I (3)

Prereq: 307, 347, 408. (fall) Lab practice to illustrate principles of selected unit operations, thermodynamics, and applied kinetics; and to aid student in gaining confidence in handling of chemical engineering equipment. Development of ability to devise and conduct chemical engineering experiments with minimum supervision and to report results satisfactorily will be stressed.

416 Unit Operations Laboratory II (3)

Prereq: 308, 347, 408. (winter) Continuation of 415. See 415 for description.

417 Process Control Laboratory (2)

Prereq: 442 or with 442. (spring) Laboratory for 442.

418 Engineering Materials Laboratory (2)

Prereq: 331. (fall, winter, spring, summer) Demonstrations and experiments supporting relationships which exist between the physical treatment and the structure and properties of materials.

430 Metallic Corrosion (3)

Prereq: 331. Basic principles of corrosion including electrochemical foundation, influence of environment, stress, strain, and structure. Selected lab experiments. 4 lec.

431 Advanced Topics in Materials Science and Engineering (3)

Prereq: 331. Structure, processing, and applications of ceramics, polymers, and composites. Corrosion and degradation of materials. Electrical, thermal, optical, and magnetic properties of materials. Materials selection and design. 3 lec.

442 Process Control and Simulation (4)

Prereq: 308, 346. (winter) Simulation and control of chemical processes. Feedback control using root loci and Bode diagrams covered. 3 lec, 2 rec.

443 Chemical Engineering Design I (4)

Prereq: 308, 347, 448. (winter) Preliminary design of a chemical process. Process synthesis, computer flowsheeting, layout, safety, and economics. Involves trips to various chemical plants. Also involves the assessment of skills from explicit and implicit prerequisite courses. 2 lec, 4 rec.

444 Chemical Engineering Design II (4)

Prereq: 443. (spring) Continuation of 443. See 443 for description. *This is a Tier III equivalent course.* 2 lec, 4 rec.

448 Safety in the Process Industry (3)

Prereq: 307, 347. (fall) Hazard and operability analysis of chemical processes and the subsequent safe operation criteria. 3 lec.

450 Fundamentals of Materials Analysis (3)

Prereq: 331 or perm. An overview of both classical and modern techniques of materials analysis. Topics covered include classical optical spectroscopies (IR, FTIR, Raman, UV/VIS), and modern surface techniques, such as AES, XPS/ESCA, and RBS. 3 lec.

452 Introduction to Transport Phenomena (3)

Prereq: 347, 400. Integration of fluid flow, heat transfer, and mass transfer into a coherent topic. Origin of general equations and methods of application to specific engineering problems. Introduction to contemporary engineering science. 3 lec.

455 Analysis of Electrochemical Systems (4)

Prereq: 306, 346, CHEM 152. Application of thermodynamics, transport phenomena, and reaction engineering to the design and understanding of electrochemical processes. Emphasis will be made in important industrial electrochemical processes such as electrolysis, batteries, and fuel cells. 4 lec.

460 Atmospheric Pollution Control (4)

Prereq: 307 or ME 321, or perm. Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques available for measuring particulate and gaseous pollutants in atmosphere and at their sources. Techniques available for control and future possibilities for control of air pollution. Bases for air pollution legislation. 4 lec.

463 Atmospheric Chemistry (3)

Prereq: CHEM 153, PHYS 253. Homogeneous chemistry of the lower and middle atmosphere, emphasizing processes by which human activity influences the environment. 3 lec.

477 Introduction to Polymer Synthesis (3)

Prereq: 306 or CHEM 454. Polymer structure, reaction mechanics, kinetics, reactors, processing, and properties. 3 lec.

481 Biochemical Engineering (3)

Prereq: 308, 347, 400, or perm. Study of processes in chemical engineering that depend on biological systems. Overview of biological basics, enzyme kinetics, major metabolic pathways, cell growth characteristics, essentials of recombinant DNA technology, bioreactor design and control, and an introduction of purification methods. 3 lec.

482 Topics in Bioseparations (3)

Prereq: CHE, CHEM, Life Sci sr, or perm. Basic techniques, such as cell disruption, centrifugation, precipitation, micro- and ultrafiltration, various

forms of chromatography for the separations of biomolecules, especially proteins, will be introduced. Some emphasis will be placed on preparative and large scale applications. 3 lec.

483 Biomedical Engineering (3)

Prereq: jr/sr in engineering, chem, physics, biol. Biomedical engineering with an emphasis on cell and tissue engineering.

492 Special Investigations (1-3, max 9)

Prereq: perm. Individual or small-group work, under staff guidance, in research or advanced study in particular field of chemical engineering. (Only three hours of special investigations in any area can be counted towards the CHE technical elective requirement.)

493 Intercollegiate Design Competition (1-3, max 9)

Individual or small group participation, under faculty guidance, in regional or national student design competition. (A maximum of three credit hours may be applied toward the CHE technical elective requirement.)

499 Chemical Engineering Senior Assessment (1)

Prereq: 443. Assessment of skills, behaviors, and attitudes of students graduating in chemical engineering. Examination of retention from prerequisite courses. Readings and discussion of professional and ethical responsibility, the impact of engineering solutions in a global and societal context, the need for lifelong learning, and knowledge of contemporary issues. 2 rec.

Engineering, Civil (CE)

200 Civil Engineering Fundamentals (1)

(spring) Overview of civil engineering profession and specialization areas, value of professional organizations and lifelong learning, introduction to departmental facilities, description of curriculum, and advising responsibilities. 1 lec.

201 Civil Engineering Computational Techniques (3)

Prereq: MATH 263A or concurrent. (spring) Introduction to methods of problem solving, use of computers for calculations, applications or problem solving to civil engineering. 3 lec.

210 Plane Surveying (4)

Prereq: MATH 163 or MATH 263A, or perm. (fall, spring) Basic theory and field practice in measurement of distance, elevation, and angle; introduction to GPS and photogrammetry. 3 lec, 3 lab.

220 Statics (4)

Prereq: MATH 263C, PHYS 251. (fall, winter, spring) Laws of equilibrium of forces, friction, centroids, and moment of inertia. 4 lec.

222 Strength of Materials (4)

Prereq: grade of C or better in 220. (fall, winter, spring) Simple stresses and strains, bending, torsion, beam deflection, columns, and combined stresses. 4 lec.

223 Strength of Materials Laboratory (1)

Prereq: 222 or with 222. (fall, winter, spring) Testing of various materials under axial compression, tension, flexure, torsion, impact, fatigue. Use of electrical, mechanical, and photoelastic strain measuring equipment. 2 lab.

311 Route Engineering (3)

Prereq: 210. (winter) Horizontal and vertical curves; geometric design of highways; earth-work distribution. 3 lec.

316 Construction Engineering and Management (3)

Prereq: Jr, (fall). Overview of construction engineering and management, project funding, bidding and selection process, design and construction interface, competitive and negotiated contracts, planning and scheduling, estimation, equipment productivity and safety. 3 lec.

330 Structural Theory I (5)

Prereq: 201; C or better in 222. (fall) Determinacy requirements; analysis of statically determinate structures; influence lines; deflections; introduction to analysis of statically indeterminate structures. 5 lec.

331 Structural Theory II (3)

Prereq: C or better in 330. (winter) Indeterminacy conditions for structures; slope deflection meth-

od; moment distribution method; influence lines; introduction to computer methods. 3 lec.

340 Fluid Mechanics (4)

Prereq: C or better in ME 224. (fall, winter, spring) Statics and dynamics of viscous and nonviscous fluids, dimensional analysis and similitude, pipe flow, principles of lift and drag, introduction to boundary layers. 4 lec.

341 Fluid Mechanics Laboratory (1)

Prereq: 340 or with 340. (fall, winter, spring) Lab techniques, calibration principles, fluid and flow measurements. 2 lab.

342 Applied Hydraulics (3)

Prereq: C or better in 340. (spring) Flow and pressure distribution in multiloop networks, dynamics of flow in pumps and turbines, uniform and nonuniform flow in open channels, culvert hydraulics, hydraulic transients. 3 lec.

343 Hydrology (3)

Prereq: 340, ISE 304 or with ISE 304. (spring) Hydrologic cycle. Precipitation and runoff data; groundwater hydraulics; infiltration; peak runoff calculations. Application to water resource problems. 3 lec.

353 Basics of Environmental Engineering (3)

Prereq: jr. (spring) Engineering concepts, theory, design, and practice as applied to solution of problems of environmental technologies, waste management, drainage, and control of water, soil, and atmospheric pollution; social and environmental impact of these solutions. 3 lec.

361 Transportation Engineering (3)

Prereq: 311. (spring) Introduction to Transportation Engineering with emphasis on transportation planning concepts and multi-modal design elements. 3 lec.

370 Geotechnical Engineering (4)

Prereq: 222, 340, GEOL 283, or concurrent with 340. (winter) Soil compositions, physical and chemical properties, and classifications; water movement and seepage problems; consolidation and shear strength; applications to earth structures, retaining walls, slope stability, bearing capacity, and settlement. May be taken as 570 for grad credit except by civil engineers. 4 lec.

371 Soil Engineering Laboratory (1)

Prereq: 370 or concurrent with 370. (winter) Classification of soils and determination of their properties through tests; grain size analysis, Atterberg limits, relative density, Proctor testing, permeability, direct shear, and consolidation. 2 lab.

380 Civil Engineering Materials (3)

Prereq: 222. (spring) Engineering properties of materials used in civil engineering applications including metals, concrete, timber, and composites. 3 lec. 400

Societal Concerns in Civil Engineering (2)

Prereq: senior. (fall) Engineering economy, codes, variances, alternative designs, and public meetings. 2 lec.

410 Applied Property Surveying (3)

Prereq: 210. (spring) Triangulation, astronomical observations, land surveying, instrument adjustments, special topics. 2 lec, 3 lab.

415 Geodetic Surveying (3)

Prereq: 210 or perm. (winter) Astronomical observations and methods used in GPS and photogrammetry to establish horizontal and vertical control for objects. 3 lec.

416 Construction Estimating (3)

Prereq: 316. (winter). Methods used to elaborate construction estimates, to prepare and understand the components of a bid, and conduct manual and computer-aided take-off and pricing. 3 lec.

417 Construction Planning and Scheduling (3)

Prereq: 316. (spring). Techniques and applications of all aspects of the construction scheduling process, including background on scheduling construction projects, development of work breakdown structures, and transition to elements of the construction project schedule, linear scheduling methods for heavy construction, use of real-world examples in civil engineering and applications using Primavera Project Planner. 3 lec.

418 Construction Administration (3)

Prereq: 316. (winter). Aspects of construction administration, including project funding,

contractor cash disbursements, contract provisions, construction economics, borrowing practices, concepts and explanations of financial documents and cost reports, overview of book-keeping fundamentals and construction marketing practices. 3 lec.

423 Continuum Mechanics (4)

Prereq: perm. (demand) Matrix methods in mechanics and structures; laws of dynamics; mechanical properties of solids and fluids; basic theories of continuum mechanics. Grad course open to selected undergrads. 4 lec.

424 Strength of Materials II (3)

Prereq: C or better in 222. (fall) Unsymmetrical bending, shear centers, columns, energy, and continuation of basic topics usually taught in Strength of Materials I. 3 lec.

431 Experimental Methods in Structural Dynamics (3)

Prereq: perm. Modal analysis of structural models to identify their vibration characteristics. Frequency response functions using dual-channel signal analyzers. Mobility measurement techniques. Modal parameter extraction techniques. Computer-aided structural dynamics. Grad course open to selected undergrads. 2 lec, 3 lab.

432 Structural Design in Concrete (4)

Prereq: C or better in 330. (winter) Materials and properties; design methods, strength of rectangular sections subject to bending moments, axial loads, and shear forces either separately or in combination; continuity in concrete construction; design of one-way slabs; design of T-sections in bending; deflection calculations; footing design. 4 lec.

433 Structural Design in Steel (4)

Prereq: C or better in 330. (spring) Materials and properties; design methods, design of tension members; structural fasteners; design of compression members, beams, trusses, and frames. 4 lec.

434 Advanced Structural Design (3)

Prereq: 432 or 433, or perm. (fall) Design of complete structures or major components of structures. 3 lec.

437 Timber Design (3)

Prereq: 330. (winter) Material properties and behavior of structural timber. Analysis and design of sawed timber and laminated timber members. Timber construction analysis and design. 3 lec.

438 Prestressed Concrete Design (3)

Prereq: 330, 432. (spring) Theory of prestressing. Design and analysis of prestressed concrete beams, slabs, box girders, and bridge girders by elastic and ultimate strength methods. 3 lec.

439 Computer-Aided Structural Design (3)

Prereq: 432 and 433, or perm. (fall) Analysis and design of complete structural systems constructed from reinforced concrete, structural steel, and/or other applicable materials by using computers. Material reports and cost estimation of projects. 1 lec, 4 lab.

445 Flow Routing (3)

Prereq: 342 or perm. (demand) Gradually varied flow computation, the use of computer software programs for flow routing, and their engineering applications. 3 lec.

450 Water Treatment (3)

Prereq: 342, 343, CHEM 123. (fall) Sources and collection of public water supplies; principles of treatment processes. 3 lec.

451 Wastewater Treatment (3)

Prereq: 342, 343, CHEM 123. (winter) Quantities and collection of municipal wastewater; principles of treatment processes. 3 lec.

452 Water and Wastewater Analysis (3)

Prereq: CHEM 123. (fall) Lab methods and interpretation of results for chemical and bacteriological examination of water and wastewater. 2 lec, 3 lab.

453 Solid/Hazardous Waste Management (3)

Prereq: CHEM 123 or 153 and sr. (fall) Application of engineering principles to chemical processing systems to reduce or eliminate discharges which have a negative impact on environmental systems; Investigations into green building practices and sustainability including use of novel or recycled materials, energy management and efficiency, water use/re-use, and indoor air quality. 3 lec.

454 Green Engineering (3)

Prereq: sr, perm. (winter) Identification, classification, and study of methods of characterization, handling, treating, managing, and disposal of solid/hazardous wastes regulated under federal and state guidelines and legislation. 3 lec.

457 Water Resources Engineering (3)

Prereq: 343 or perm. (fall) Elective sr civil engineering course designed to provide integrated treatment of water resources engineering, including hydrological measurements, runoff, groundwater, water law, reservoir design, frequency analysis, planning, flood control. Systems approach to multi-purpose water resource projects emphasized. 3 lec.

458 Water Quality Engineering (3)

Prereq: perm. (winter) Natural and man-made characteristics of water quality, changes in quality resulting from use, criteria for control of stream pollution, methods of improving water quality, also legal, economic, and institutional aspects. Grad course open to selected undergrads. 3 lec.

462 Traffic Engineering (3)

Prereq: 361; major or perm. (winter) Traffic parameters, traffic data collection, capacity analysis of freeways, signalized intersection design. 3 lec.

471 Foundation Engineering (3)

Prereq: 370. (fall) Design and construction problems in soil engineering, subsurface investigation; foundation selection and design criteria; principles of design of shallow and deep foundations; site improvement. 3 lec.

474 Soil Mechanics Laboratory (1)

Prereq: perm. (spring) Advanced techniques for measurement of soil engineering properties. Grad course open to selected undergrads. 3 lab.

476 Soil Stabilization (3)

Prereq: perm (spring) Engineering, geological, and pedological soil classification systems. Mineralogy of clay minerals and claywater systems; requirements for and factors affecting soil stability. Methods and mechanics of soil stabilization; designing and testing stabilized soils. 3 lec., 3 lab.

482 Paving Materials and Mixtures (3)

Prereq: perm. (fall) Types, constituents, chemical behavior, tests, specifications, and uses of bituminous materials, Portland cements, and aggregates in pavements. Design and manufacture of paving mixtures and construction of pavements. Grad course open to selected undergrads. 2 lec, 3 lab.

483 Principles of Pavement Design (3)

Prereq: perm. (spring) Fundamentals of wheel loads and stresses in pavements. Properties in pavement components and design tests. Design methods and evaluations. 3 lec.

490 Special Investigations (1-5)

Prereq: perm. Special investigation or problems not covered by formal courses. Permits well-qualified student to pursue individual study under direction of faculty member.

491A Senior Design—Land Development (4)

Prereq: 343, 361, or perm. (fall) An advanced applied engineering course utilizing multiple fundamental civil engineering courses as applied to land development. CE 491A is a Tier III equivalent course.

491B Senior Design—Environmental/Water Resources (4)

Prereq: 450, with 451, or perm. (winter) An advanced applied engineering course utilizing combinations of water/wastewater treatment and hydraulics/hydrology courses as applied to society's needs. CE 491B is a Tier III equivalent course.

491C Senior Design—Structures and Foundations (4)

Prereq: 370 and 432 or 433, or perm. (spring) A civil engineering design elective integrating fundamental civil engineering courses for foundation and structural design, analysis, and drawing. CE 491C is a Tier III equivalent course.

491D Senior Design—Special Project (4)

Prereq: sr and perm. An advanced applied engineering course integrating several major disciplines of civil engineering in a design project. CE 491D is a Tier III equivalent course.

499 CE Undergraduate Research Experience (3)

Prereq: perm. (fall, winter, spring) Students participate in an independent and original laboratory research project under the close

supervision of a faculty advisor. This entails familiarization with relevant civil engineering literature, laboratory work, preparation of a report, and presentation of a departmental seminar.

Engineering, Electrical (EE)**101 Introduction to Electrical Engineering (4) (2A)**

Prereq: MATH 113 or placement level 2. (fall, winter) The goal of this course is to introduce students to the profession of electrical engineering. Students will develop a knowledge of key technical concepts of electricity: voltage, current, resistance, and power. In addition, students will study the history, professional values, and methods of electrical engineering. Lab work provides hands-on experience with electrical systems. 3 lec, 2 lab.

102 Introduction to Computer Engineering (4)

Prereq: MATH 113 or placement level 2. (fall, winter) The goal of this course is to introduce students to the field of computer engineering. Students will develop a knowledge of the fundamentals of Boolean algebra, binary arithmetic, characteristics of logic gates, and flip-flops. Lab work provides hands-on experience with digital systems. 3 lec, 2 lab.

103 Introduction to Electrical and Computer Engineering Design (4)

Prereq: EE 101, 102, and CS 210, or 230, or 240A, or ET 181. (fall, spring) The goal of this course is to introduce students to design in electrical engineering. Students will develop an understanding of engineering design principles. Students will also develop a knowledge of microcomputer organization and an ability to perform assembly language programming. Lab work provides students an opportunity to apply design principles on a major project. 3 lec, 2 lab.

210 Foundations of Electrical and Computer Engineering I (4)

Prereq: 101 and MATH 263A. (fall, winter) Basic concepts and definitions, units, DC circuit analysis, Kirchhoff's laws, source transformations, nodal and mesh analysis, network theorems, inductance and capacitance, and simple RC and RL circuits with an emphasis on developing problem-solving skills. Students will be expected to have, and be able to demonstrate, a firm "understanding" of these topics as well as a mastery of basic problem-solving skills. In addition, there will be an emphasis on being able to make an effective technical presentation.

211 Foundations of Electrical and Computer Engineering II (4)

Prereq: C or better in 210 and MATH 263B. (winter, spring) Continuation of 210. RC and RL circuits, Laplace Transforms, State-Variables, Fourier Analysis, AC circuit analysis, and the frequency domain, with an emphasis on strengthening problem-solving skills. Students will be expected to have, and to demonstrate, a thorough understanding of the frequency domain and how DC circuits, transient circuits, Fourier circuits, and AC circuits can be represented in the s-domain. They will also need to demonstrate a mastery of advanced problem-solving skills. In addition, students will need to effectively communicate, in written form, advanced technical concepts and problems.

212 Foundations of Electrical and Computer Engineering III (4)

Prereq: 103, 211, 221. (fall, spring) Advanced AC circuits, polyphase circuits, magnetically coupled circuits, frequency response and filters, two-port circuits, and simple electronic circuits. Students will need to have, and demonstrate, a thorough understanding of the basic fundamentals of electrical and computer engineering and how they relate to more advanced subjects, such as those covered in this course. They will also need to demonstrate a facility with advanced problem-solving techniques. There will be a design project to be performed in the laboratory. 3 lec, 2 lab.

221 Instrumentation Laboratory (4)

Prereq: 210, with 211. (winter, spring) Designed to give students a proficiency in using electrical instruments. Emphasis will be on learning how to use instruments, using good experimental technique, and knowing the limitations of various laboratory equipment. Emphasis will also be placed on the proper acquisition, recording, analysis, and

reporting of data. Format will include classroom instruction and laboratory work. 2 lec, 4 lab.

224 Introduction to Digital Circuits and Computer Design (4)

Prereq: 103, 211. (spring, fall) Microprocessor components, information representation, analysis and synthesis of combinational and sequential circuits, datapaths, pipelining, control units, instruction sequencing and interpretations, instruction set architectures and FPGAs.

304 Basic Electrical Laboratory I (1)

Prereq: 313 or with 313. Lab supplement to 313. Basic instruments and circuit measurements. Not open for credit to electrical engineering majors.

305 Basic Electrical Laboratory II (1)

Prereq: 304 and/or with 314. Lab supplement to 314. Operation of semiconductor devices, amplifier design, oscillators and digital circuits design. Not open for credit to electrical engineering majors.

313 Basic Electrical Engineering I (3)

Prereq: MATH 263B, PHYS 253. (fall, winter) DC circuits, single-phase steady state AC circuits, and the frequency and transient responses of energy-storage networks. Not open for credit to electrical engineering majors.

314 Basic Electrical Engineering II (3)

Prereq: 313. (winter) Semiconductor devices, small signal analysis, amplifiers and oscillator circuits, pulse and digital circuits. Not open for credit to electrical engineering majors.

315 Basic Electrical Engineering III (3)

Prereq: 313. (spring) Transformers, direct current machines, polyphase induction and synchronous, rotating machines, including equivalent circuits and steady state performance prediction. Not open for credit to electrical engineering majors.

321 Electromagnetics and Materials I (4)

Prereq: 212, MATH 440. (winter, spring) Designed to develop in students an understanding of Maxwell's equations through an overview of properties of materials, electrostatics, magnetostatics and electrostatics, and magnetostatics and electrodynamics.

322 Electromagnetics and Materials II (5)

Prereq: 321. (fall) Continuation of 321. Discussion of time-varying, electromagnetic fields. Application of field theory to solution of problems from various branches of electrical engineering with emphasis upon physical interpretation. Included are relation of field theory to circuit theory, Poynting's theorem, stored energy and power flow, complex fields and power, TEM waves, uniform plane wave, wave reflection and refraction. Theory and applications of transmission lines.

333 Intermediate Electrical Engineering I (4)

Prereq: 211. (fall, winter) Develop an understanding of the relationship between signals and systems. Includes a continuation of the Laplace and Fourier analysis started in EE 211 and modeling of high-order electrical and mechanical systems. Frequency response, Bode plots, and systems design using poles and zeros will be addressed, as well as state equations representation and analysis. Students will also develop an awareness of discrete time systems, difference equations, Z transforms, sampling, and digital filters.

334 Intermediate Electrical Engineering II (4)

Prereq: 395B (fall, spring) Develop an understanding of electronic devices including diodes, bipolar transistors, and FETs. Students will also develop an awareness of semiconductor properties and operations, and use this knowledge to design analog circuits. Course includes computer-aided analysis and design.

335 Energy Conversion (5)

Prereq: 321. (fall) Basic principles of electromechanical energy conversion. Circuit models and parameter tests for single-phase and 3-phase transformers. Fundamentals of DC machinery; circuit models and characteristics of DC motors. Fundamentals of AC machinery; theory and operation of synchronous machines and induction motors.

351 Intermediate Computer Engineering I (4)

Prereq: 224. (fall, winter) Fundamental knowledge and skills for the study and practice of computer engineering. Utilize assembly language loops, tables, lists, and interrupts as well as microprocessor I/O with the PIC microprocessor.

Discrete-time signals and systems including convolution, Z-transforms and frequency response.

352 Intermediate Computer Engineering II (4)

Prereq: 351, 371. (winter, spring) Theoretical framework for information processing technology concentration, and transmitting discrete and continuous-time signals and data by digital systems and computers. A continuation of EE 351.

371 Applied Probability and Statistics for Electrical Engineers (4)

Prereq: 212, or MATH 263D with CS 361. (fall, spring). Fundamentals of statistics and probability and the ability to apply them to problems in electrical engineering.

395A Intermediate Electrical and Computer Engineering Design Experience (4)

Prereq: 102 and CS 240A and junior standing. Enhancement of the laboratory skills of students and to reinforce an understanding of the fundamentals necessary for the execution of successful experimentation. Students will develop a greater awareness of specific topics in electronics, systems, energy conversion devices, power distribution, communications, and electromagnetics. 2 lec, 4 lab.

395B Intermediate Electrical and Computer Engineering Design Experience (4)

Prereq: 395A. Continuation of EE 395A. 1 lec, 6 lab.

395C Intermediate Electrical and Computer Engineering Design Experience (4)

Prereq: 395B. Continuation of EE 395B. 8 lab.

401 Advanced Laboratory I (1)

Prereq: perm. (fall, winter, spring) Advanced lab format follows that of intermediate lab. Student-proposed projects are design- or research- oriented and directed by faculty member specializing in area of investigation. Portion of this lab required in conjunction with certain electrical engineering 400-level lecture courses.

402 Advanced Laboratory II (1)

Prereq: perm. (fall, winter, spring) See 401 for description.

403 Library Research (1)

Prereq: perm. (fall, winter, spring) Library research under the supervision of a faculty member. Prior approval required. See departmental office for regulations.

405 Physical Electronics (3)

Prereq: 334. (fall) Simplified 1-dimensional band theory of solids. Valence and conduction band occupancy from Fermi-Dirac statistics. Hole conduction and doping. Derivation of PN junction volt-amp-temperature characteristic. DC and AC characteristics of junction transistors derived from fundamentals.

406 Advanced Analog Circuits (3)

Prereq: 334. (spring, on demand) Advanced analog circuitry. Operational amplifiers, characteristics, limitations. Linear and nonlinear applications. Feedback, stability criteria, compensation, time, and frequency response. Waveform generation and shaping, timing, comparison, and arithmetic operations.

407 Advanced Digital Circuits (3)

Prereq: 334. (winter) Advanced digital circuitry. Basic logic operations, digital device families, and characteristics. Arithmetic, counting, memory, other MSI and LSI functions. Numeric display devices. Analog/digital conversion.

410 Semiconductor Principles I (3)

Prereq: 405. (spring, on demand) Continuation of 405. Application of semiconductor theory to solid state devices: diodes, transistors, FETs and Gunn effect devices. Charge control analysis; Ebers-Moll equations; electro-optical effects.

414 VHDL Design (4)

Prereq: 102. (fall) Application of very high speed hardware description languages (VHDL) for digital design, simulation, verification, and specification. Structural design concepts, design tools. VHDL language, data types, objects, operators, control statements, concurrent statements, functions, and procedures. VHDL modeling techniques, algorithmic, RTL, and gate level designs. Design synthesis. 3 lec, 2 lab.

415 VLSI Design (3)

Prereq: 334. (winter) Introduction to very large scale integration (VLSI) technology and design of CMOS integrated circuits. VLSI fabrication process, design rules, logic design, performance estimation, chip engineering, and computer aids to VLSI design. Students may register for 2 hours of senior lab (401, 402) credit for the VLSI lab work. 3 lec, 2 lab.

416 VLSI Design II (4)

Prereq: 415. Sequential system design, clock generation and clocking disciplines, design validation, sequential testing, standard cell layout, adders, ALUs, multipliers, high-density memory, PLA design, floorplanning, O/I architecture, register transfer design, data-path control, high-level synthesis. 3 lec, 2 lab.

425 Control Theory I (3)

Prereq: 333. (winter) Formulation of models for lumped parameter systems, fundamental principles of closed loop control, signal flow graphs, stability, Routh-Hurwitz criterion, root locus construction, specifications, and design via root locus

426 Control Theory II (3)

Prereq: 425. (spring) Simulation, Bode plots, frequency response performance specifications and relationship to time domain specifications, Nyquist criterion, relative stability measures, closed loop frequency response, analytical design of lead, lag, lag-lead, and PID compensators.

427 Control Theory III (3)

Prereq: 426. Sampling and data reconstruction, discrete-time systems, z-transforms, sampled data systems, frequency response, Nyquist criterion, root locus, bilinear transformation, analytical design of lead, lag, lag-lead, and PID compensators.

428 State Variable Methods in Control (3)

Prereq: 425. (fall, on demand) Basic state variable concepts, writing state equations, time-domain solution of the state equation and the matrix exponential, relations to transfer functions, controllability and observability, stability, state variable methods of design including state feedback and state estimation.

429 Mechanics and Control of Robotic Manipulators (4)

Prereq: sr. (spring) Classification and applications for mechanical manipulator systems. Manipulator motion description, forward kinematics transformations, and solution of inverse kinematics equations. Velocity kinematics and manipulator dynamics equations. Trajectory generation and control schemes including sensory feedback. Lab exercises to augment lecture material. Co-listed with ME 429.

431 Optoelectronics and Photonics I (3)

Prereq: 321. (fall) Introduction to important modern optical devices and lasers and their applications. Emphasizes basic physical theory needed to understand lasers, their construction, and their applications. Detailed discussion of various types of lasers and their characterization.

432 Optoelectronics and Photonics II (3)

Prereq: 431. (winter) Continuation of 431. Additional theoretical material discussed beginning with Maxwell's equations. Examines electromagnetic issues that play major role in laser oscillations—amplification and feedback. Characterization of lasers and continuing discussion of laser types and their applications.

433 Optoelectronic Materials and Devices (3)

Prereq: 405. Introduction to modern optical materials and devices utilizing semiconductor technology; optical integration of these devices and their application in diverse fields. Fundamentals of devices and materials emphasized.

440 Microwave Theory and Devices (3)

Prereq: 322. (Offered spring every other year.) Wave propagation, transmission lines, Smith chart, impedance matching, waveguides, and survey of devices (microwave generators, semiconductor devices, etc.)

441 Antennas (3)

Prereq: 395C. (winter) Fundamental concepts and definitions, radiation integrals and potential functions, linear wire antennas, loops, arrays, and personal computer applications.

443 Electromagnetics I (3)

Prereq: 322. (Offered winter every other year.) Mathematical review of vector operations in

Cartesian and curvilinear coordinates. Solution of wave equation in Cartesian coordinates and application to wave reflection from interfaces between general media. Decomposition of wave solutions into TE, TM, and TEM waves, with application to waveguides and transmission lines; solution of wave equation in cylindrical coordinates, with application to circular waveguide, radiation from line sources, and scattering from cylindrical objects.

454 Power Electronics (3)

Prereq: 334. (winter) Introduces seniors to power electronics. Covers most uses of semiconductor devices for the conversion and control of electric power: AC to DC, AC to AC, DC to DC, DC to AC conversions, and DC and AC motor drives. Semiconductor device characteristics (particularly those characteristics not stressed in 340 and 341) and device protection conclude the offering.

455 Introduction to Electric Power System Engineering and Analysis I (3)

Prereq: 335. (fall) Includes power system representation, computer methods, symmetrical components, protection methods, and stability.

456 Introduction to Electric Power System Engineering and Analysis II (3)

Prereq: 455. (winter) Continuation of 455. See 455 for description.

457 Introduction to Electric Power System Engineering and Analysis III (3)

Prereq: 456. (spring) Continuation of 455, 456. See 455 for description.

461 Digital Systems I (3)

Prereq: 352. (winter) Postulates and fundamental theorems of Boolean algebra; algebraic and map methods for design of combinational logic and simple sequential circuits; logic minimization methods; introduction to system design using shift registers, counters, etc.

462 Digital Systems II (3)

Prereq: 461. (spring) Basic concepts from theory of finite-state machines, analysis and synthesis of sequential circuits, study of state assignment, synchronous and asynchronous machines, and system design using integrated circuits.

463 Digital Systems III (3)

Prereq: 462. (spring) Synthesis of sequential circuits using ROMs and RAMs for control logic. Introduction to computer organization and design including selection of instruction set, register and bus organization and implementation of control logic with microprogrammed control.

467 Advanced Microprocessors (3)

Prereq: 395A. (winter or spring) Organization of 16- and 32-bit microprocessors. Particular attention given to a specific microprocessor family (such as the Motorola 680XY) regarding instruction set, assembly language programming, arithmetic operations, I/O, etc.

468 Microcomputers II (3)

Prereq: 395A. (winter or spring) Design, implementation, and application of microcontroller or microprocessor based systems. Microcontroller instruction set architectures (e.g. PIC Micro). Fault-tolerant systems. Other topics include but are not limited to hardware interface to external components, serial and parallel input/output (I/O), networks of microcontrollers and embedded microprocessors (e.g. CAN, I2C, TTP, SPI, Ethernet), motor and actuator control. Computer projects emphasize the design and implementation microcontroller-based systems.

470 Communication Engineering (3)

Prereq: 333. (fall) Unified approach to communications stressing principles common to all transmission systems. Review of Fourier series. Fourier integral and complex frequency techniques with emphasis on communication networks, time response and convolution, measurement of information, amplitude modulation (double and single side-band techniques), frequency modulation, sampling theory, pulse modulation and digital communications systems, fundamentals of random signal theory and its application to communication systems, noise and its effect on conventional modulation systems; noise figure, noise suppression techniques, and other related topics.

471 Stochastic Processes in Electrical Engineering (3)

Prereq: 371. (winter) Brief review of probability concepts, including densities, moments, etc.

Random process fundamentals (ensembles and realizations), stationarity concepts, 2nd-order statistics, Gaussian processes, random signal through linear systems, Markov chains.

472 Introduction to Digital Communications (3)

Prereq: 470, 471. (spring) Summary review of deterministic and stochastic signal and system characterizations, sampling quantization. Baseband pulse signaling and the matched filter. Introduction to signal spaces and distance concepts. Bandpass modulations and their performance in AWGN. Link budget analysis, synchronization overview.

478 Introduction to Digital Signal Processing (3)

Prereq: 333, 371. (on demand) Discrete time signals and systems review, convolution, discrete-time Fourier transform, z-transform, canonical filter representations, windowing, and FFT.

481 Professional Experience in Electrical Engineering (1)

Prereq: sr and perm. Supervised work-study program in an electrical engineering profession, in established industrial environment. Credit dependent on advance registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hours applied toward graduation limited by department.

485 Electronic Navigation Systems I (3)

Prereq: 321, 333. (winter) Principles and theory of operation of electronic navigation systems with emphasis on avionics; aircraft instrumentation, VOR, DME, Inertial, Omega, LORAN, ILS, MLS, Transit, GPS, air traffic control, and radar.

486 Electronic Navigation Systems II (3)

Prereq: 485. (spring) Continuation of 485. Focused on current and future avionics systems and aircraft electronics. Design and signal processing in navigation receivers.

487 Electronic Navigation Systems III (3)

Prereq: 486. Continuation of 485 and 486 with emphasis on mathematical modeling of navigation and landing systems, fault tolerant avionics system design and architectures, and flight testing and current developments.

490 Selected Topics (1-6)

Prereq: perm. Selected topics of current interest in electrical engineering.

495A Electrical and Computer Engineering Capstone Design I (4)

Prereq: 44 hours of EE. The goal of this course is to give students the opportunity to refine and demonstrate their ability in engineering design. Students work on a major design project as part of a team with an emphasis on problem definition and specification. They will conduct a preliminary design review. In addition, students will study the systems approach to problem solving, engineering ethics, economic analysis, and the elements of scheduling and planning. 3 lec, 2 lab.

495B Electrical and Computer Engineering Capstone Design II (4)

Prereq: 495A. Continuation of EE 495A. Students are expected to continue the design begun in EE 495A with an emphasis on construction, pre-testing, and redesign. They will conduct a critical design review. In addition, students will study and develop skills necessary for a successful engineering career. 1 lec, 6 lab.

495C Electrical and Computer Engineering Capstone Design III (4)

Prereq: 495B. Continuation of EE 495B. Students are expected to complete the design developed in EE 495B with an emphasis on final assembly, testing, and analysis of outcomes. They will conduct a formal design review. In addition, the student will be exposed to a variety of career options available to graduates. This is a Tier III equivalent course. 1 lec, 6 lab.

Engineering, Industrial and Systems (ISE)

200 Introduction to Computers and Industrial Engineering (4)

(winter, summer) Introduces the major skills that Industrial Engineers are responsible for in practice, including engineering economy, methods of

analysis, and system design. The applications and important features of office software, especially spreadsheets, are explained, with examples related to the IE skills that are discussed.

201 Data Display and Management (4)

Prereq: MATH 263A (winter, summer) How data—primarily numeric—can represent systems. Focuses on the dimensionality of the data and common formats for data in structured problem solving. Course introduces software used for data management and analysis.

304 Applied Engineering Statistics (3)

Prereq: MATH 163B or MATH 263B (fall, winter) Introduction to efficient methods for data collection and analysis. Application of basic statistical tests, techniques, and experimental design concepts to engineering and science data problem areas. Not for ISE majors.

305 Engineering Statistics I (4)

Prereq: MATH 263C. (winter, spring) Introduction to probability, concept of random variables, discrete and continuous probability distributions, and expectation.

306 Engineering Statistics II (4)

Prereq: 305. Math 211 or concurrent. (fall, spring) Functions of random variables, sampling distributions, estimation theory, hypotheses testing, and statistical prediction.

330 Engineering Economy (3)

(fall, spring) Provides knowledge of the economic consequences of engineering decision processes, and methods for evaluation of engineering design alternatives in terms of costs and benefits. Topics include time equivalence of money, annual cost method, present worth method, rate of return method, depreciation, benefit/cost, break-even analysis, income taxes, equipment replacement and risk.

333 Work Design (5)

Prereq: 200, 305; IT 101. (spring, summer) Design of work systems and measurement of work. Topics include job methods, operation analysis, charting techniques and schematic models, stop-watch time study, work sampling, predetermined time systems, standard data, incentive wage systems, and learning curves. 4 lec, 2 lab.

336 Project Management (3)

(fall) Development and utilization of network techniques, such as PERT and CPM, to schedule activities, develop financial budgets, allocate resources, and control progress and costs of practical projects. Students introduced to use of available computer programs that generate project schedules. 3 lec.

381 Internship in Industrial and Systems Engineering (1-3)

Prereq: jr. Supervised work-study program, in industrial and systems engineering profession, in established industrial or government environment. Credit dependent upon advance registration and mutual agreement between faculty supervisor and participating company. Course may be repeated; however, hours applied for graduation limited by dept.

402 Manufacturing Systems (4)

Prereq: sr in ENT. (winter) Applications of industrial and systems engineering techniques, principles, practices, and methodologies as they relate to the operation, analysis, management, planning, and design of manufacturing systems.

403 Material Handling Systems Engineering (4)

Prereq: 333 or sr in ENT. (winter) Provides a broad understanding of materials handling engineering from a system design and application engineering point of view. Instruction in the engineering principles, design criteria, operating parameters, performance requirements, equipment resources, and applications of engineering practices involved in the planning, design, and operation of materials handling systems for manufacturing, physical distribution, and government operations. A materials handling system design project is a required part of the course.

407 Introduction to Designed Experiments (3)

Prereq: 304 or 306 or equiv. (spring) Design and analysis of engineering experiments approached from linear statistical model point of view. Blocking designs, full and fractional factorial designs, analysis of variance, and introduction to response surface

methodology. Software for statistical analysis is utilized.

412 Principles of Six Sigma (4)

Prereq: 306 (winter) Introduction to the Six Sigma DMAIC problem-solving methodology. Topics covered include the tools and techniques for product and process improvement and the application of basic and advanced statistics to problem solving.

415 Introduction to Systems Engineering (3)

Prereq: 305, MATH 340, ET 181. Introduction to systems engineering concepts. Continuous time and discrete time methods for modeling of systems. Systems structure, open-loop and closed-loop systems, positive and negative feedback. State and transition equations. Applications to modeling in manufacturing, production and inventory systems, service industries, physical and biological systems.

426 Microprocessor Applications in Manufacturing (4)

Prereq: 305, ET 181. Use of microprocessor-based devices in manufacturing. Computer numbering systems, digital logic, data communications, programmable logic controllers.

432 Inventory and Manufacturing Control I (4)

Prereq: 305. (winter, spring) Design of inventory and manufacturing control systems. Forecasting, continuous and period review inventory systems. Relationship between production schedules and inventory. MRP. Production scheduling systems, sequencing models, dispatching rules. 4 lec.

433 Industrial Computer Simulation (4)

Prereq: 306, ET 181. (fall) Simulation of industrial engineering systems using discrete event modeling. Process modeling approach to simulation. Basic (entities, processes, and resources), intermediate (queues, seize, and release), and advanced (entity transport) modeling concepts. Statistical analysis of simulation results. Animation of simulation models. Applications of simulation in manufacturing, production, and service areas. Lab projects using simulation software. 3 lec., 2 lab.

435 Quality Control and Reliability (3)

Prereq: 304 or 306. (winter) Application of statistics to control of quality and reliability in products and services. Design of acceptance sampling and process control systems, including attention to inspection and test methods. Design and implementation of quality assurance programs, including nonstatistical dimension of quality systems. 3 lec.

440 Facility Planning and Design (4)

Prereq: 333, IT 110 or 117 (fall) The process of designing and laying out a facility, with an emphasis on manufacturing facilities. Issues addressed include selecting the type and quantity of production and handling equipment; alternatives for material flow; qualitative and quantitative methods for developing the facility layout, determining the appropriate size for the departments and the facility; and utilizing software as appropriate for determining the facility design.

441 Introduction to Operations Research (4)

Prereq: 305. (fall) Basic methods of operations research. Modeling methods, linear programming, Simplex method, integer programming. Random processes, queueing theory.

442 Inventory and Manufacturing Control II (3)

Prereq: 432. Just-in-time manufacturing, push and pull systems. Performance measurement, classification of manufacturing system performance. Factory dynamics, effect of variability upon production. Variance reduction.

444 Applications of Mathematical Programming (3)

Prereq: 441, MATH 211. Application areas in operations research and the use of software tools for optimization. Theory of the simplex and interior-point methods. Algorithms for linear, mixed integer, and constraint programming. Optimization in industrial and manufacturing systems. Projects using optimization software libraries.

445A Systems Design I (3)

Prereq: 330, 333, 432, ENG 305J. (winter) Design methodology and principles. Identification and definition of design project. This is a Tier III equivalent course.

4458 Systems Design II (3)

Prereq: 445A. (spring) Individual or small-group system design project continued from 445A. This is a Tier III equivalent course.

448 Human-Machine Systems (3)

Prereq: with 407; ET 181, ENG 305J. Role of operator as subsystem in human-machine systems. Design principles for information displays, equipment controls, workplace environments, and life support systems. Design project required. 3 lec.

455 Information Systems Engineering (4)

(winter) Introduction to applications of information systems industry and the design and implementation of these systems. Students will also learn IDEF0 modeling systems and database development.

456 Database Information Systems (4)

Prereq: ISE 200 or ET 181. Introduction to application and development of database systems in industrial engineering. In addition, students will learn IDEF1x modeling and SQL.

489 Special Investigations (1-6)

Prereq: perm. Independent study of a topic in industrial and systems engineering under the guidance of a faculty member.

490 Advanced Problems in Computer Applications (1-6)

Prereq: perm. Special investigations of advanced industrial and systems engineering problems involving use of digital computers.

Engineering, Mechanical (ME)

100 Introduction to Mechanical Engineering (4) (2A)

(fall, winter, spring) Open to students of all majors. Introduction to the history, professional values, and methods of mechanical engineering. Lab work provides hands-on experience with engineering systems and introduces engineering design, graphical, and computer techniques of problem solving. Discussion of current areas of interest for engineering research and future prospects for technology. No specific mathematics background required.

101 Mechanical Engineering-Gateway Course (4)

Gateway course introduces engineering students to the culture and problem solving methods of the mechanical engineering profession. Student teams will work cooperatively with teams of senior ME students on topics of interest to both. Introduction to use of numerical modeling and graphical representation in engineering problem solving. Introduction to professional ethics.

224 Dynamics (4)

Prereq: PHYS 251, C or better in CE 220. (fall, winter, spring) Motion of particles and rigid bodies, work and energy, impulse and momentum. 4 lec.

288 Data Analysis Lab (2)

Prereq: ME101, ET181. An introduction to statistics and a detailed study of its application in the analysis of experimental data. Includes weekly laboratory experiments, and data analysis and curve fitting using computerized methods. Lab experiments and exercises will introduce interpretation of engineering drawings and an introduction to geometric dimensioning and tolerancing (GD&T).

301 Kinematics and Dynamics of Machines (4)

Prereq: C or better in 224. (winter) Analytical and graphical solutions of motion problems involving mechanical elements: linkages, gears, cams, mechanical trains, etc.

303 Machine Design Analysis (4)

Prereq: 301, 314 concurrent. Comprehensive study of the stress and deflection analysis of machine elements. Special emphasis on the design characteristics of materials and on the theories of failure for static, impact and cyclic loads.

304 Machine Elements (4)

Prereq: 303, 351 concurrent. A detailed study of the design and use of machine elements, including screws and fasteners, shafts and associated parts, bearings, gears and other power transmission components. Team design project.

313 Metal Processing (3)

Prereq: CE 222, CHE 331. (winter, spring) Structure of metals, mechanics of metal forming and metal cutting. Analysis of forces, energy requirements, and temperature effects. Interrelationship between metal processing and mechanical properties.

314 Introduction to Manufacturing Processes (4)

Prereq: CE 222, CHE331, 303 concurrent. Introduction to applied statistics in manufacturing. Interrelationship between process, design, materials and mechanical properties. Introduction to major metal manufacturing processes: casting, rolling, forging, extrusion, drawing, machining, powder metallurgy and heat treating. Analysis of forces, energy requirements, and temperatures. Polymers and processing.

321 Introduction to Thermodynamics (4)

Prereq: PHYS 252, MATH 263C. (fall, winter, spring) Basic engineering thermodynamics. Definitions, first law, properties and property relations, second law, availability, and applications to engineering problems.

328 Applied Thermodynamics (4)

Prereq: C or better in 321. (winter) Nonreactive and reactive mixtures, turbomachinery, analytical studies of gas and vapor power cycles, and refrigeration. 4 lec.

350 Introduction to CAD (3)

Prereq: jr/sr, ET 240. (fall, winter) Emphasis upon use of the OU Computer Aided Design/Computer Aided Manufacturing System with the following topics covered: Engineering Design System, Engineering Modeling System, 3-D Graphics, 3-D Visualization, Solid Modeling Concepts, and other topics.

351 Computer-Aided Design I (3)

Prereq: IT101, 304 concurrent. A detailed study of the use of computer-aided design tools in the engineering design process with a focus on solid modeling and finite element analysis. Team design project that emphasizes proper use of CAD tools.

388 Applied Instrumentation Lab (4)

Prereq: ME288 or ISE 304, EE313, CE340 or concurrent. Students will be instructed on the use of basic lab equipment while constructing and testing their own measurement systems. This will comprise the use and construction of various transducers, signal conditioning circuits and data acquisition systems. The importance of error analysis and its application to their own experiments will also be covered. The final part of the course will require the completion of lab experiments using more advanced instrumentation systems.

398 Junior Laboratory (3)

Prereq: EE 304. (fall, winter, spring) Introduction to measurement of various phenomena frequently encountered in mechanical engineering, e.g., strain, temperature, pressure, flow rate, displacement, and acceleration. Emphasis given to interpretation of data and preparation of laboratory reports.

400 Heating, Ventilation, and Air Conditioning (3)

Prereq: jr. (on demand) Description and evaluation of heating, air conditioning, and total-energy systems employed to provide thermal environments for buildings ranging in scope from residences to integrated commercial, apartment, or industrial complexes. Covers human comfort, psychometrics, load analysis, techniques, equipment, and controls.

401 System Analysis and Control (4)

Prereq: MATH 340. (spring) Modeling and formulations of physical systems. Transient and steady-state dynamic responses, and other fundamental theory of automatic controls and applications. 3 lec, 1 lab.

403 Machine Design I (4)

Prereq: CHE 331, C or better in CE 222. (spring) Applications of mechanics, mechanisms, materials, and mechanical processes to design and selection of machine members and units of power transmission.

404 Machine Design II (4)

Prereq: 403. (on demand) Morphology of engineering design. Applications of statistics and probability and techniques of optimization to design. Team design project.

406 Analysis and Design of Mechanisms (4)

Prereq: 301. (on demand) Analysis and synthesis of planar and 3-dimensional mechanisms using classical and modern analytical approaches. Structural synthesis of mechanisms, dimensional synthesis of linkages for function generation, path generation, and for rigid-body guidance. Applications of matrix methods, optimization techniques, and computer solutions.

407 Fundamentals of Nuclear Engineering (4)

(on demand) Nuclear engineering, including nuclear reactions, radiation detection and measurement, reactor criticality, principles of reactor control, radiation shielding, effects of radiation of materials, uses of radioactive materials.

408 Nonlinear Vibrations (3)

(on demand) Qualitative and numerical study of mathematics and physics of nonlinear systems. Formulations of nonlinear engineering problems, solutions techniques, and stability analysis.

409 Advanced Engineering Dynamics (3)

Prereq: 221. (on demand) Theoretical analysis and applications of dynamical aspects and problems of machines and systems.

412 Heat Transfer (4)

Prereq: MATH 340, ET 240, C or better in 321 and CE 340. (spring) Basic concepts of conduction in 1 or more dimensions, steady and transient modes. Radiation, fundamentals of convection in various modes, heat exchanger design. 4 lec.

413 Conduction and Radiation Heat Transfer (4)

Prereq: 412. (on demand) Advanced analytical treatment of conduction and radiation heat transfer. Boundary value problems, orthogonal expansions, moving heat sources, multi-dimensional problems with time varying boundary conditions, finite difference analysis, conformal transformations, radiation network matrix analysis, diffuse-specular exchange, and Monte Carlo techniques, etc.

416 Combustion (3)

Prereq: 328 or 412. (on demand) Introduces student to fundamentals of combustion; enables students to analyze complex combustion processes in constructive manner. Modern diagnostic techniques of combustion, and evaluation of pollution potential of different combustion processes.

417 Design of Thermal Systems (4)

Prereq: 328, 412. (on demand) Design of systems in which thermodynamics, transport behavior, and optimization techniques are major considerations. Emphasis on total design approach including factors such as cost and reliability. Typical systems include power, propulsion, environmental, and cryogenic. Design project and report required.

418 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. (on demand) Instruction in experimental procedure and experience in designing and executing lab experiments. Students plan and execute their own experiments to acquire answers to assigned problems. Variety of areas covered including control systems, energy conversion, fluid flow, heat transfer, motion measurements, stress-strain. Instructional guidance provided by entire mechanical engineering staff. Provides familiarity with variety of instrumentation and procedures. Three-quarter sequence with experimental subjects phased with prerequisites.

419 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. (on demand) Continuation of 418. See 418 for description.

420 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. Continuation of 419. See 418 for description.

422 Stirling Cycle Machine Analysis (3)

Prereq: ET 240, 328, CE 340, with 412. (on demand) Analysis and simulation of Stirling cycle machines, in which the single phase working gas operates in a closed thermal power cycle. Development and use of computer simulation techniques to model the nonsteady flow conditions including thermodynamics, heat transfer, and fluid flow friction effects.

424 Gas Dynamics I (3)

Prereq: CE 340. (on demand) 1- and 2-dimensional compressible flow-isentropic flow, flow with heat transfer, friction, shocks, generalized 1-dimensional flow. Applications to propulsion systems. 3 lec.

425 Propulsion Systems Analysis (4)

Prereq: 424. (on demand) Applications of basic engineering disciplines to design and analysis of vehicle propulsion systems. Extensive use of digital computers. Term report required.

427 Power Station Engineering (3)

Prereq: 328 and 412. (on demand) Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, heat balances, and hydro power. 3 lec.

429 Mechanics and Control of Robotic Manipulators (4)

Prereq: sr. (on demand) Classification and applications for mechanical manipulator systems. Manipulator motion description, forward kinematics transformations, and solution of inverse kinematics equations. Velocity kinematics and manipulator dynamics equations. Trajectory generation and control schemes including sensory feedback. Laboratory exercises to augment lecture material. Co-listed with EE 429.

431 Atmospheric Pollution Control (4)

Prereq: CHE 307, or ME 321 and CE 340, or perm. (on demand) Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques for measuring particulate and gaseous pollutants in atmosphere and at their source. Current techniques and future possibilities for control of air pollution. Bases for air pollution legislation.

434 Fundamentals of Aerosol Behavior (4)

Prereq: 328 or 412. (on demand) Aerosol characterization transport properties, convective and inertial deposition, light scattering and visibility, experimental methods, coagulation, gas to particle conversion, general dynamic equation for aerosols.

435 Energy Engineering and Management (3)

(on demand) Basic concepts and objectives of energy management, energy audit, engineering evaluation of several energy systems, availability analysis, second law efficiency, economic evaluation, and application of these principles to case studies.

440 Direct Energy Conversion (4)

(on demand) General principles of unconventional energy conversion. Thermoelectricity, thermionics, MHD, fuel cells, photovoltaics, wind systems, solar systems, and energy storage.

446 Potential Flow Theory (3)

Prereq: CE 340. (on demand) Inviscid flow theory. General equations of fluid dynamics, study of potential flow. Grad-level course open to selected undergrads.

447 Viscous Flow Theory (3)

(winter) Mechanics of fluid resistance, laminar and turbulent flow. Applications to external boundary layer flow and to flow in ducts. Grad-level course open to selected undergrads.

450 Computer-Aided Design (3)

Prereq: 350 and 403. (winter) Applications of contemporary computer-modeling techniques to solve complex problems in stress, heat transfer, dynamic systems, and fluid flow. Emphasis given to applications of these techniques to solve specific problems in mechanical-engineering design.

451 Computer-Aided Design II (2)

Prereq: 351, 471 concurrent. A detailed study of the use of computer-aided design tools in the engineering design process with a focus on finite element analysis, dimensioning & tolerancing and drafting. Team design and optimization project that emphasizes proper use of CAD tools.

455 Mechatronics I (4)

Prereq: 224, ET 240, with EE 314. (winter) Principles of design of computer-based, intelligent machines. Microprocessor/microcomputer fundamentals, input-output sensors and actuators, computer achievement of machine kinematics, robot-control techniques, lab experience in microprocessor-machine interfacing.

456 Mechatronics II (3)

Prereq: 301, 401, 403, 455 or equiv. EE 314 (spring) Continuation of 455. Design of intelligent machines with emphasis on design for assembly and design for adaptive tasks. Actuator characteristics and control; kinematics, dynamics, and path control of connected links, special requirements of advanced robotics tasks; optical, acoustical, and tactile sensing and control; end effector and workstation fixtures design.

460 Computer Integrated Manufacturing/Processes (4)

Prereq: 450. (on demand) Introduction to numerical control: control systems for NC; communication media; NC programming languages—SPL and APT, mathematics for NC; parametric splines, Bezier Curves, and 8 Splines; sculptured surfaces including Coons bi-cubic patch and 8-surf.

461 Design for Manufacture (4)

Prereq: 313, 403. (on demand) Elements of concurrent engineering. Design variables and their influence on manufacture. Effect of manufacturing processes on design decisions. Design for machining, forming, assembly, and inspection.

462 Manufacturing Processes (4)

(on demand) The basic theory of plasticity and its application to manufacturing processes. Applied theories of metal working processes such as forging, extrusion, rolling, and some aspects of machining, theories of polymer processing, composite and reinforced materials processing use of application of materials information systems (MIS), and mapping techniques.

463 Mechanical Behavior and Metallurgy of Materials (4)

Prereq: CHE 331, sr. (on demand) Relationship of mechanical properties to internal structure, i.e., both microstructure and macrostructure. Micromechanical strengthening mechanisms of metals and alloys. Elastic and plastic behavior. Fatigue and fracture behavior and mechanisms. Single crystal deformation and dislocation theory. Ductile and brittle materials testing. Plastic forming of metals. Quantitative microscopy.

470 Mechanical Engineering Design I (4)

Prereq: 328, 403. (fall) This course is the first of a three course sequence that will provide a comprehensive, capstone, senior design experience for mechanical engineering majors. Course includes studies in the analytical techniques of design, as well as the design, construction, and evaluation of the performance of an actual engineering system. ME 470, 471, and 472 must be taken consecutively. 2 lec, 2 lab.

471 Mechanical Engineering Design II (4)

Prereq: 470 (winter) This course is a continuation of ME 470 and must be taken in the quarter following the successful completion of ME 470. 2 lec, 2 lab.

472 Mechanical Engineering Design III (4)

Prereq: 471 (spring) This course is a continuation of ME 471 and must be taken in the quarter following the successful completion of ME 471. This is a Tier III equivalent course. 2 lec, 2 lab.

475 Solar Design (3)

Prereq: jr/sr, MATH 263C, PHYS 253, or equiv. (on demand) Introduction to theoretical principles and practical design aspects of solar energy systems. Topics covered include principles of radiation; heating load computation; air and liquid, flat-plate collectors; concentrating collectors; energy storage; photovoltaic conversion; economic analysis.

476 Automotive Engineering (4)

Prereq: 224, 403. Overview of automotive engineering, including modeling, simulation, design, and testing of land vehicle systems with emphasis on performance, safety, fuel economy, and emissions. Broad exposure to all topics through case studies.

480 Colloquium (1)

Prereq: sr. (on demand) Open presentation of individual engineering analysis or design effort. Requires demonstration of individual analytical or design ability, knowledge of engineering fundamentals (including passing a mini-fundamentals of engineering test), and satisfactory oral presentation techniques.

484 Projects in Thermal Machinery (3)

(on demand) Research in thermal machines. Individual work on experimental or analytical

project involving current problems. Training in use of library, theory and use of instruments, error analysis, planning of experiments, effective report writing. Students should take two-term sequence to allow adequate time for completion of meaningful project. Report required.

485 Projects in Thermal Machinery (3)

Continuation of 484. See 484 for description.

486 Projects in Thermal Machinery (3)

Continuation of 484-485. See 484 for description.

488 Experimental Design Laboratory (2)

Prereq: 388, 471 concurrent. This course is the laboratory testing component of the integrated Senior (Capstone) Design sequence. Design theories will be tested and demonstrated using applied experimental principles and design. The course will be held concurrently with ME 471.

489 Special Investigations (1-6)

Prereq: perm.

491 Mechanical Vibrations I (4)

Prereq: C or better in 224, MATH 340, ET 240, sr. (fall) Characteristic phenomena of mechanical vibrations encountered in machines and structures (of 1 degree of freedom) and their quantitative investigation. Simple harmonic motion; free, transient, and forced vibrations; and damping effects.

492 Mechanical Vibrations II (4)

Prereq: C or better in 491. (spring) Application of matrix methods; 2 degrees of freedom systems; lumped mass systems with several degrees of freedom, and methods for normal mode determination. 4 lec.

493 Lubrication and Bearing Analysis (3)

(on demand) Concepts of boundary, hydrostatic, and hydrodynamic lubrication. McKee, and Boyd and Raimondi methods. Solid lubrication, porous bearings, and gas bearings.

494 Advanced Machine Design (3)

(on demand) Advanced considerations in design and analysis of machine members, strength under combined stress, thermal stress, fatigue in metals, and design using plastics. 3 lec.

495 Introduction to Kinetic Theory and Statistical Thermodynamics (4)

(on demand) Kinetic theory, classical and quantum statistical mechanics with applications to engineering devices. 3 lec.

496 Experimental Methods in Design (3)

Prereq: 403. (on demand) Investigation and evaluation of experimental methods that may be used to obtain design and performance data. Techniques of photo-elasticity, strain measurements, and vibration measurement.

497 Methods of Engineering Analysis I (4)

Prereq: MATH 340. (on demand) Applications of matrices, Fourier series, partial differential equations, and Bessel functions.

498 Senior Laboratory (3)

Prereq: 398, 412, 403 or concurrent. (fall, winter, spring) Mechanical engineering experiments. Measurement of the behavior of more complex systems encountered in mechanical engineering. Equal emphasis given to mechanical systems and to thermal and fluid systems. Engines, vibrating systems, wind-tunnel experiments, refrigeration systems, fatigue, multidimensional stresses, and combustion are typical subjects for investigation.

499 Senior Design Project (4)

Prereq: 404 or 417, and perm. (fall, winter, spring) Capstone design project in mechanical engineering. Self directed or group project which requires typical design activities such as decision making, feasibility evaluation, technical analysis, performance summary, technical report preparation, and oral technical presentation. Projects may be individually arranged with a faculty member in mechanical engineering or a group project (current examples are the Mini Baja Vehicle Contest or the Walking Robot Contest). Subject matter can be mechanisms, thermal/fluid systems, control systems, etc. Oral final presentation to senior class and panel of faculty required.

Engineering and Technology (ET)

106 Engineering Orientation (1)

Introduction to the Russ College and exploration of the ways engineers and technologists interact with society.

181 Computer Methods in Engineering I (4)

Prereq: MATH 263A or 163A, preference given to ET or pre-engineering majors. Introduction to application of digital computation for solution of engineering problems, with emphasis on methodology and organization. Problem formulation and solution in terms of an object oriented programming approach using the C++ language in an interactive network environment.

190 Cooperative Education Field Experience I (1)

Prereq: perm. Required of, and limited to, students on approved co-op work assignments. Prior approval required before a student registers. Credit earned is not applicable toward specific degree requirements, but will accumulate in the student's academic credit total. In addition to continual monitoring of student's progress by the cooperative education coordinator and the faculty advisor, participating students are required to submit a final report of their activities.

280 Engineering and Technology—Overview (4) (2A)

Intended for students of all majors; non-Engineering Technology students are encouraged. Provides an overview of engineering and technology, to place the profession in a historical context, to examine the views of supporters and detractors, to examine moral and ethical issues associated with the profession in society, and to develop an appreciation for the manner in which engineering and technological work is conducted. Emphasizes a "problem-solving" approach to questions of all kinds, but more specifically to technological ones.

290 Cooperative Education Field Experience II (1)

Prereq: perm. See 190.

320 History of Western Technology (3) (2A)

Survey of significant technological innovations of Western civilization from Greco-Roman period into 20th century. Interrelationships, in history, between technology and society. Background in technology or science not required.

322 Introduction to Materials Behavior (3)

Introductory materials science course covering behavior of metals, polymers, and ceramics for nontechnical majors.

325 Pollution Solutions I (3)

Understanding current air pollution problems, their causes, effects, and possible solutions and impact of those solutions on society.

326 Pollution Solutions II (3)

Same course description as 325 covering different aspects and topics. Not a continuation of 325.

331 Fluid Dynamics for Nonengineers (3)

Prereq: jr. Not open to engineering students. Physical, not mathematical, introduction to principles controlling fluid motions in our environment. Study of weather, flood circulation, aerodynamics, river hydraulics, and rocketry through design of golf balls and plumbing systems included. Introduction to mechanics, fluid properties, fluids at rest and in motion. Lectures and reading assignments supplemented with films.

334 Water Pollution Control (3)

Prereq: soph, nonengineering students. Designed for student with limited technical background but who is interested in problems of water pollution. Deals with nature of water, source and character of pollutants, technology of wastewater renovation, ecology of water pollution, and legal, economic, and administrative constraints.

337 Transportation Today (3)

Prereq: jr or perm, not open to civil engineering majors. Designed for student with limited technical background who is interested in gaining knowledge in area of highway and transportation planning and design. Major topics include geometric factors, traffic studies, modes of transportation, human equation, and planning strategies.

350 Engineering and the Technological Society (3) (2A)

Prereq: jr or sr. Technical inventions and social inventions, impact and social consequences of engineering public policy issues, ethical considerations, and some exploration of alternative futures. Discussion and lecture format used.

390 Cooperative Education Field Experience III (1)

Prereq: perm. See 190.

400 Professional Engineering Fundamentals Review (2)

Prereq: sr. Review of basic engineering principles. Provides a compact review of basic engineering principles and illustrated by practical solutions.

445 Advanced Numerical Methods (4)

Prereq: ME 497 or equiv. (winter) Numerical methods for solution of ordinary and partial differential equations, stability considerations and error estimates, application to variety of engineering problems, numerical method of lines and integration procedures for stiff ODE systems.

470 Energy and the Environment (3) (2A)

(on demand) Technical, economic, political, and environmental factors in energy production. Conventional, gasification, synfuels, fission, fusion, solar, wind, and possible future conversion techniques. Course designed to provide understanding needed for intelligent participation in societal decisions related to energy issues. (Equiv to MATH 445.)

490 Cooperative Education Field Experience IV (1)

Prereq: perm. See 190

495 Leadership Seminar (4)

Prereq: ET major, perm. Through selected readings, class presentations, discussions, and case studies, students will seek an understanding of leadership and its importance and effectiveness in achieving goals with followers. Successful leaders in engineering and other fields will visit the class and share their knowledge of leadership. Several written reports and oral presentations on leadership case studies will be required during the term.

English (ENG)**150 Developmental Writing Skills (4)**

Prereq: placement or recommendation. Credit for 150 will not be given to any student who has already passed any other English course. Develops skills through attention to coherence, mechanics, syntax, and writing conventions. Does not satisfy Tier I or Arts and Sciences humanities requirement. (Nonnative speakers take 150A.)

151 Writing and Rhetoric I (5) (1E)

Prereq: fr or soph only; 150, or 151 placement into requested or earlier quarter or into 152/3. Practice in composing and revising expository essays which are well organized, logically coherent, and effective for their purpose and audience. Topics from personal experience or nonfiction reading. (Nonnative speakers take 151A.)

152 Writing and Reading (5) (1E)

Prereq: fr and soph only. Same as 151, except that topics are developed from reading and discussion of fiction, poetry, and/or drama.

153 Writing and Reading: Special Topics (5) (1E)

Prereq: fr and soph only. Same as 152, in structure, genres, and purposes to 152, but each section uses readings and/or clips focused on a specific theme chosen by the instructor. Recent themes include the environment, the Viet-Nam war, the social outsider, *The Brothers Karamazov*, and popular culture.

153A Writing and Reading: Gender (5) (1E)

Prereq: fr and soph only. Same as 152 except that topics are developed from readings depicting women and men in literature. Students examine and write about how, in both literature and life, women and men see themselves and each other, how people learn what society expects of them, and about such topics as sexuality, marriage, friendship, and rebellion against culturally imposed sexual roles.

153B Writing and Reading: African American Experiences (5) (1E)

Prereq: fr and soph only. Same as 152, except that topics are developed from readings examining various experiences of African Americans in America, from earlier writings up to and emphasizing contemporary literature, including fiction, poems, essays, and autobiographies.

200 Introduction to Literature (4) (2H)

Prereq: 151 or 152 or 153 or 153A/B. Approaches to reading and interpreting fiction, poetry, and

drama using skills, techniques, and language of interpretation. Intended for nonmajors.

201 Critical Approaches to Fiction (4)

Close textual analysis of fiction, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for nonmajors.

202 Critical Approaches to Poetry (4)

Close textual analysis of poetry, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for nonmajors.

203 Critical Approaches to Drama (4)

Close textual analysis of drama, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for nonmajors.

203A Interpretation of Drama (Film) (4)

Prereq: 151 or 152 or 153 or 153A/B. Critical study of film and literature, e.g., film adaptations of literary classics, films made by literary authors, etc. May not be taken to fulfill major requirement of two courses from 201, 202, 203

204 Introduction to International Literature I: The Classical Tradition (4) (2H)

Prereq: one course above 199. Texts which exemplify the classical sensibility in Western literature.

205 Introduction to International Literature II: Romantic Tradition (4) (2H)

Prereq: one course above 199. British, American, and Continental texts which exemplify the Romantic tradition in Western literature.

206 Introduction to International Literature III: The Modern Tradition (4) (2H)

Prereq: one course above 199. Texts which express the modern sensibility in Western literature.

210 Critical Approaches to Popular Literature (4)

Prereq: one course above 150. Introduction to techniques and criticism in works where serious and popular literature meet, e.g., mysteries, science fiction, westerns.

250 Principles of Textual Analysis (4)

Offers undergraduates considering the English major a thorough grounding in textual analysis and critical terminology. Emphasis on generalizable reading strategies rather than investigation of a particular topic.

251 English Lit. to 1688 (5)

Prereq: 250 or concurrent. This course will survey some of the major authors, genres, and movements of the early British period, from the Anglo-Saxons to the Glorious Revolution in the 17th century. The course will include some of the most influential literary figures of the period, but will also give attention to less canonical writers who have attracted increasing scholarly attention in recent years.

252 English Lit. 1689–Present (5)

Prereq: 250 or concurrent. This course will survey some of the major authors, genres, and literary movements of the modern British period, from the Glorious Revolution to the 20th century. The course will include some of the most influential literary figures of the period, and will also give attention to less canonical writers who have attracted increasing scholarly attention in recent years.

253 Survey of American Lit. (5)

Prereq: 250 or concurrent. This course will survey some of the major authors, genres, and movements in American Literature, from the early colonial period to the 20th century. The course will include some of the most influential literary figures in American literature, but will also give attention to less canonical writers who have attracted increasing scholarly attention in recent years.

254 Research and Writing in English Studies (4)

Prereq: 151-2-3; 250 or concur; not 307J. This course prepares students to use scholarly resources to write critical analyses of texts in English Studies. Students are required to master research methods, library resources, the integration of primary and secondary texts, MLA/Chicago documentation, and the conventions of critical writing. Readings for the course vary, and may include a single long text or several short ones. Students do extensive outside research on the readings, write at least 20 pages

of critical prose based on this research, revise this writing, and make presentations to the class about their work

270 Special Studies: Individual or Comparative Authors (2-3)

Prereq: one course above 150. Intensive study of individual or comparative authors (A) Medieval, (B) Renaissance, (C) Restoration and 18th-century, (D) 19th-century American, (E) 19th-century British, (F) 20th-century American, (G) 20th-century British, (H) Continental.

271 Special Studies: Selected Themes or Topics in Literature (2-3)

Prereq: one course above 150. Intensive study of selected theme or topic: (A) poetry, (B) fiction, (C) drama, (D) comparative genres, (E) language, (F) stylistics and rhetoric, (G) literature and film, (H) gay and lesbian, (I) man and books

277T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director, arts and sciences major. Fall quarter, first year

278T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director, arts and sciences major. Winter quarter, first year.

280 Expository Writing and the Research Paper (4)

Prereq: one course above 150. Practice in library research, techniques of documentation, and writing research papers.

297T English Tutorial (1-15)

Prereq: HTC student. Fall quarter, first-year course in two-year tutorial sequence.

298T English Tutorial (1-15)

Prereq: HTC student. Winter quarter, first-year course in two-year tutorial sequence

299T English Tutorial (1-15)

Prereq: HTC student. Spring quarter, first-year course in two-year tutorial sequence.

301 Shakespeare: The Histories (4)

Prereq: 251 or jr or sr.

302 Shakespeare: The Comedies (4)

Prereq: 251 or jr or sr.

303 Shakespeare: The Tragedies (4)

Prereq: 251 or jr or sr.

304 English Bible (4)

Prereq: one course above 150. Selected prose and poetry of the Hebrew and Christian scriptures

305J Technical Writing (4) (1J)

Prereq: jr and completion of first-year composition. Preparing clear, functional reports; presenting data for experts and other specialized audiences. Documents include, but are not limited to, proposals; information reports (progress, feasibility, inspection, completion); and descriptions of mechanisms and technical processes.

306J Women and Writing (4) (1J)

Prereq: jr and completion of first-year composition. Practice in developing essays on women and their interests, on women and writing, and on gender issues.

307J Writing and Research in English Studies (4) (1J)

Prereq: jr or sr; two courses from 201, 202, 203. Scholarly writing in English studies: research reports, integration of primary and secondary texts, library resources, and MLA/Chicago documentation.

308J Writing and Rhetoric II (4) (1J)

Prereq: jr or sr and completion of first-year composition. Focuses on skills in writing expository prose, with regular practice and evaluation supplemented by attention to published prose and concepts of rhetoric and style.

309J Writing in the Sciences (4)

Prereq: jr or sr; completion of first year composition; and permission of instructor. The primary purpose of this course is to provide students in the sciences with an opportunity to practice writing within their majors. The course focuses on how to review prior research, how to propose research projects, how to incorporate research results into final reports, and how to write clearly and concisely.

311 English Literature to 1500 (4)

Prereq: 251. Authors, works, and genres of Old and Middle English literature.

312 English Literature: 1500-1660 (4)

Prereq: 251. Authors, works, and genres of Renaissance English literature.

313 English Literature: 1660-1800 (4)

Prereq: 252. Authors, works, and genres of Restoration and 18th-century English literature.

314 English Literature: 1800-1900 (4)

Prereq: 252. Authors, works, and genres of Romantic and Victorian English literature.

315 English Literature: 1900 to Present (4)

Prereq: 252. Authors, works, and genres of British literature from 1900 to the present.

321 American Literature to 1865 (4)

Prereq: 253. Authors, works, and genres of American literature from the colonial period through the Civil War

322 American Literature: 1865-1918 (4)

Prereq: 253. Authors, works, and genres of American literature from the end of the Civil War to the end of World War I

323 American Literature: 1918 to Present (4)

Prereq: 253. Authors, works, and genres of American literature from the end of World War I to the present

325 Women and Literature (4)

Prereq: one course above 199 and jr or sr. Surveys work of significant women writers.

326 Lesbian and Gay Literature (4)

Prereq: one course above English 150. Surveys lesbian, gay, bisexual, and transgendered (LGBT) literature with an emphasis on how LGBT identities and experiences have been represented in post-1900 literary discourse.

327 African American Fiction (4)

Prereq: one course above 150. A selection of major fiction by African American authors.

328 African American Poetry (4)

Prereq: one course above 150. A selection of major poetry by African American authors.

329 African American Drama (4)

Prereq: one course above 150. A chronological survey of major drama by African American authors.

331 Studies in Asian Literature (4) (2C)

(fall) Introduction to cultural background of Asian literature.

332 Studies in Asian Literature (4) (2C)

(winter) Continuation of 331. Study of classical Asian literature.

333 Studies in Asian Literature (4) (2C)

(spring) Continuation of 332. Study of modern Asian literature.

335 The Ohio University Writers (4)

Faculty writers at OU visit classrooms to read and discuss their works.

336 McGuffey Lectureship in Literature (1-4)

Prereq: one course above 150. Special series of lectures by current McGuffey Visiting Professor of English. Lectures offered determine credit hrs assigned.

342 English and Continental Literature (4)

Prereq: one course above 150. Authors, themes, and genres in English and European literature.

349 History of Books and Printing (4)

Prereq: one course above 150. Introduction to history of the book and its place in development of Western culture from ancient world to present. Approach is primarily historical, cultural, and aesthetic.

350 Traditional Grammar, Mechanics, and Usage (4)

Prereq: one course above 150. Grammatical understanding and awareness of relationships in sentence structure, usage, and punctuation.

351 The History of the English Language (4)

Prereq: jr or sr. Course examines changes affecting English; sound patterns, grammatical forms, vocabulary, and semantic values.

352 The Development of American English (4)

Prereq: jr or sr. Regional and social varieties of American English.

353 The Structure of American English (4)

Prereq: jr or sr. Study of English grammar using a linguistic model chosen from contemporary linguistic theories

356 Young Adult Literature (4)

Prereq: 250. Historical development, and philosophical and aesthetic bases of literature for young adults

361 Creative Writing: Fiction (4)

Prereq: 200 or 201 or 250. Beginning course in writing short fiction with emphasis on invention, craft, and criticism of student writing and published fiction.

362 Creative Writing: Poetry (4)

Prereq: 200 or 202 or 250. Beginning course in writing poetry with emphasis on invention, craft, and criticism of student writing and published poetry.

363 Creative Writing: Nonfiction (4)

Prereq: 200 or 201 or 250. Beginning course in writing nonfiction with emphasis on invention, craft, and criticism of student writing and published nonfiction.

377T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director, arts and sciences major. Spring quarter, first year

378T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director, arts and sciences major. Fall quarter, second year

393 Creative Writing Workshop: Short Story (4)

Prereq: 361. Instruction and practice in fiction writing, concentrating on narrative, character, and setting.

394 Creative Writing Workshop: Poetry (4)

Prereq: 362. Instruction and practice in poetry writing.

395 Creative Writing Workshop: Nonfiction (4)

Prereq: 363. Instruction and practice in writing nonfiction prose, with attention to fictionalized biography and literary essays.

397T English Tutorial (1-15)

Prereq: HTC student. Fall quarter, second-year course in two-year tutorial sequence.

398T English Tutorial (1-15)

Prereq: HTC student. Winter quarter, second-year course in two-year tutorial sequence.

399 Literary Theory (4)

Prereq: 250, 301-303, 310-323. Recent issues in literary theory and the study of literary texts.

399T English Tutorial (1-15)

Prereq: HTC student. Spring quarter, second-year course in two-year tutorial sequence.

430 American Literature (3)

Prereq: enrollment in Inst. Amer. Cult. Modern and contemporary American literature as part of the annual summer Institute in American Culture for Austrian Students and Teachers.

441 Colloquium (4)

Prereq: sr. (fall) Specific interdisciplinary problems to be assigned each quarter.

442 Colloquium (4)

Prereq: sr. (winter)

443 Colloquium (4)

Prereq: sr. (spring)

445 Special Studies (4)

Prereq: sr.

447 Studies in Criticism (4)

Prereq: sr. Problems in critical theory.

451 Teaching Language and Composition (3)

Prereq: sr, advanced standing in professional education. Content and methods of presentation for teaching language and composition in high school. Not applicable to Arts and Sciences 200-level requirement.

451L Field Experience in Secondary English/Language and Composition (1)

Prereq: sr; concurrent with 451. Field experience to provide practical applications of materials, methods, and techniques of language and composition instruction as appropriate in various secondary

school settings. Students will observe classroom teachers and carry out various instructional tasks as the cooperating teachers deem appropriate.

452 Teaching Literature (3)

Prereq: sr, advanced standing in professional education. Content and methods of presentation for teaching literature in high school. Not applicable to Arts and Sciences 200-level requirement.

452L Field Experience in Secondary English/Literature (1)

Prereq: sr; concurrent with 452. Field experience to provide practical application of materials, methods, and techniques of literature instruction as appropriate in various secondary school settings. Students will observe classroom teachers and carry out various instructional tasks as the cooperating teachers deem appropriate.

453 Studies in World Literature (4)

Prereq: 399. Examines contemporary world literature with an emphasis on non-Western texts (i.e., African, Indian, Latin American, Eastern European, etc.) to let students explore various cultural voices. Investigates cultural diversity through close analysis of texts. Addresses current literary discussions on decolonization, the postcolonial condition, eurocentrism, displacement, and multiculturalism. Intended for students in secondary education program.

455 English Education Workshop (1-5)

Prereq: teaching certificate or equiv. or perm. Studies in principles, problems, approaches, and issues in teaching English from elementary school to post-secondary. Topics vary.

456 Readings in Children's Literature (4)

Prereq: one course above 199. Historical development of children's literature; philosophical and aesthetic bases.

457 Readings in English Education (4)

Prereq: jr or sr. Recent developments in English education and application to teaching of jr and sr high school English.

460 Literary Topics (4)

Prereq: Three courses from 310-323 and sr. Concentrated attention to one literary topic, e.g., a genre, theme, rhetoric, or literary theory. Topics are announced quarterly in the departmental course description booklet available in Ellis Hall.

464 Major English Authors (4)

Prereq: Three courses from 310-323 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.

465 Major American Authors (4)

Prereq: Three courses from 310-323 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.

466 Major International Authors (4)

Prereq: Three courses from 310-323 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.

477T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Winter quarter, second year.

478T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Spring quarter, second year.

481 Form and Theory of Literary Genres: Fiction (4)

Prereq: 8 hrs creative writing. Theoretical considerations of fiction.

482 Form and Theory of Literary Genres: Poetry (4)

Prereq: 8 hrs creative writing. Theoretical considerations of poetry.

483 Form and Theory of Literary Genres: Nonfiction (4)

Prereq: 363, 395, and perm. Theoretical considerations of nonfiction.

486 Advanced Workshop in Fiction (4)

Prereq: 393 and perm in advance.

487 Advanced Workshop in Poetry (4)

Prereq: 394 and perm in advance.

488 Advanced Workshop in Nonfiction (4)

Prereq: 395. This is the third in the sequence of three nonfiction writing workshops. Students will be expected to produce at least three essays in workshop, participate in advanced readings in the form, and submit a final portfolio.

490 Independent Reading (1-15)

Prereq: perm. Directed individual reading and research.

491 English Internship (1-10)

Prereq: sr. and perm of internship coordinator. Provides qualified students with opportunity to learn through working at selected sites.

497T English Tutorial (1-15)

Prereq: HTC student. (fall) Thesis.

498T English Tutorial (1-15)

Prereq: HTC student. (winter) Thesis.

499H Honors Project (5-15)

Prereq: perm. Completion of individual writing project for A.B. with honors in English.

499T English Tutorial (1-15)

Prereq: HTC student. (spring) Thesis.

Humanities (HUM)

107 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works.

108 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (winter) Medieval and Renaissance classics of Western civilization. See 107 for further description.

109 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (spring) Modern classics of Western civilization (18th-20th centuries). See 107 for further description.

117 Humanities—Great Books of the Orient (4) (2H)

Prereq: fr and soph only. Masterpieces (both ancient and modern) of India, China, and Japan, leading toward understanding of Oriental culture.

307 Humanities—Great Books (4)

Prereq: jr and sr only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works. (Credit not allowed for both 107 and 307.)

308 Humanities—Great Books (4)

Prereq: jr and sr only. (winter) Medieval and Renaissance classics of Western civilization. See 307 for further description. (Credit not allowed for both 108 and 308.)

309 Humanities—Great Books (4)

Prereq: jr and sr only. (spring) Modern classics of Western civilization (18th-20th centuries). See 307 for further description. (Credit not allowed for both 109 and 309.)

Environmental and Plant Biology (PBIO)

100 The World of Plants (4) (2N)

(fall, winter) A. Trese. For nonscience majors. Survey of variety of plants and how they affect and are affected by humans. 4 lec.

100L The World of Plants with Laboratory (5) (2N)

(fall, winter) A. Trese. Same lecture as 100 with additional laboratory to provide practical experience with plants and topics discussed in lecture. 4 lec, 2 lab.

102 Plant Biology (5) (2N)

(fall, winter) For nonscience majors. Not offered on the Athens campus. Structure of seed plants as related to function. Survey of plants, with emphasis on life histories, reproduction, and relationships of selected plant groups. Credit not allowed for both 102 and 111. 4 lec, 2 lab.

103 Plants and People (4) (2A)

Interrelationships of plants and humans from

both historical and modern points of view, origins of agriculture and civilization, tropical and temperate food plants, medicinal plants, drug plants, destruction of environment, and its ultimate effect on food plants. 4 lec.

109 Americans and their Forests: Ecology, Conservation and Policy (4) (2N)

(spring) G. Matlack. The course provides an understanding of modern forests encompassing both recent and long-term effects arising from natural and human causes. The pattern and character of forest utilization will be interpreted in terms of varied cultural experiences in different regions and times. 4 lec.

114 Foundations of Plant Biology (5) (2N)

(fall, spring) S. Wyatt. The course is an introduction to the concepts of plant physiology and cellular and molecular biology that are the foundation of all biological processes. Topics include DNA structure and function leading to genetics and evolution, theories of the origins of life leading to cell structure and function, and bioenergetics. The lab provides supplemental information and hands-on activities to reinforce the lecture topics. No credit if PBIO 110 or BIOS 170. 3 lec, 4 lab.

115 Plant Structure and Development (4) (2N)

(spring) G. Rothwell. For plant biology and other science majors, preprofessional students and science modular students. Introduction to structure, growth, development, and reproductive biology of plants with emphasis on flowering plants. No credit if PBIO 102 or 111. 3 lec, 2 lab.

209 Plant Ecology (4) (2N)

(winter) K. Brown. Basic concepts, theory, and applied aspects of plant ecology. Focus on the interactions of plants with their environment (biotic and abiotic) over a range of spatial and temporal scales. No credit if PBIO 425. 4 lec.

210 Plant Physiology (4)

prereq: PBIO 110 or 114 or BIOS 170; PBIO 111 or 115 (winter) A. Faik. The regulation of plant growth and development by internal and external factors, the acquisition of water and nutrients by plants, and the movement of water and solutes through plants. No credit if PBIO 424. 3 lec, 2 lab.

211 Diversity of Life (5)

prereq: PBIO 110 or 114 or BIOS 170 or BIOL 101 (winter) P. Cantino. For plant biology and other science majors, preprofessional students, and science modular students. Survey of life cycles, morphology, and phylogeny of major groups of organisms, with emphasis on plants, fungi, and protists. No credit if PBIO 111. 3 lec, 4 lab.

220 Woody Plants (4)

(summer) Not intended for plant biology majors. Introduction to identification of woody plants, and to the use of keys in plant identification. Credit not allowed if 248 completed. 2 lec, 4 lab.

225 Flowers (4)

(summer) Not intended for plant biology majors. Identification of local flowers and discussion of the role of flowers in their natural environments. Credit not allowed if 309 completed. 2 lec, 4 lab.

248 Trees and Shrubs (Dendrology) (4)

(fall) P. Cantino. Identification, nomenclature, classification, ecological relationships, and importance to humans of native and introduced woody plants. 2 lec, 4 lab, supplementary field trips.

297T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (fall)

298T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (winter)

299T Plant Biology Tutorial (1-15)

Prereq: Tutorial college. (spring)

307 Morphology of Algae and Bryophytes (6)

Prereq: 111 or 211. (spring, even years) M. Vis-Chiasson. Comparative studies of structure, evolutionary relationships, life histories, and reproduction of selected representatives of major groups of algae and bryophytes. 3 lec, 1 disc, 4 lab.

308 Morphology of Vascular Plants (6)

Prereq: 111 or (115 and 211). (fall, even years) G. Rothwell. Diversity of vascular plants as reflected by structural, developmental, and reproductive features of major groups; emphasis on evolution of diversity through systematically significant adaptations. 3 lec, 6 lab.

309 Plant Systematics and Ohio Flora (6)
Prereq: 111 or 211. (spring) *P. Cantino* odd years; *H. Ballard* even years. Principles and methods of systematics and taxonomy; classification, floral biology, and evolution of flowering plants. Lab: identification and classification of spring flora. 3 lec, 6 lab, field trips.

310 Biology of Fungi (5)
Prereq: 111 or 211. (fall) *A. Trese*. Morphology and life history studies of selected fungi of major groups; collection, isolation, and growth of selected fungi; fungal activities. 4 lec, 2 lab.

313 Special Topics in Plant Biology (1-6)
Current and/or special topics in plant biology.

313B Supervised Study (1-3)
Prereq: plant biology majors.

322 Tropical Plant Ecology (4)
Prereq: PBIO 209 or 425 or BIOS 375. (fall) *G. Matlack*. Tropical rainforest studies around the world, including basic plant ecology, conservation, and management. 4 lec.

331 Plant Genetics (5)
Prereq: 110 or 114 or BIOS 170. (spring) *H. Ballard* and *S. Wyatt*. Basic principles of genetics as they relate to plants, including transmission, expression, and evolution of genetic materials. 5 lec.

353 Plant Developmental Physiology (4)
Prereq: 110 or 114 or BIOS 170. (spring, odd years) *S. Wyatt*. Growth and development in flowering plants. Topics include cell growth and differentiation in developing meristems, tissue and organ development in culture, dormancy and germination, flower induction, seed formation, growth regulators, and senescence. 4 lec.

397T Plant Biology Tutorial (1-15)
Prereq: Tutorial college. (fall)

398T Plant Biology Tutorial (1-15)
Prereq: Tutorial college. (winter)

399T Plant Biology Tutorial (1-15)
Prereq: Tutorial college. (spring)

404 Undergraduate Research (3-6, max 6)
Prereq: 17 hrs plant biology and jr standing. Independent research under supervision of faculty member.

406 Undergraduate Research/ Written Presentation (3-4)
Prereq: 17 hrs plant biology and jr standing. An independent research experience that includes a formal written presentation of the work. All work will be done under the supervision of a faculty member. No credit if PBIO 499H taken.

407 Undergraduate Research/ Oral Presentation (3-4)
Prereq: 17 hrs plant biology and jr standing. An independent research experience that includes a formal oral presentation of the work. All work will be done under the supervision of a faculty member.

409 Biological Discussions (2)
Seminar presentations and discussions on selected plant biology topics. 2 disc.

410 Plants and Soil (4)
Prereq: 111 or 211; 2 qtrs chemistry. (winter) *J. DeForest*. Soil as environment for plant growth; interrelationships between plant and soil; role of soil organisms in cyclic processes; building and maintenance of soil fertility; relationships between soil and health of plants, animals, and humans. 3 lec, 2 lab.

412 Plant Pathology (5)
Prereq: 111 or 211 (fall, odd years) *A. Trese*. Diseases of plants; history, types of pathogens and disease cycles, impact in nature and agriculture, disease control strategies. Isolation and identification of pathogens. 3 lec, 4 lab.

415 Quantitative Methods in Plant Biology (5)
Prereq: PSY 221; 24 hrs of PBIO courses. (winter) *B. McCarthy*. Lecture: biostatistics and applications in the plant sciences; scientific method, hypothesis testing, and design of experiments; sampling, data analysis, regression and correlation, analysis of variance, and parametric and nonparametric statistics. Lab: microcomputer applications in spreadsheet analysis, statistics, and graphics. 4 lec, 2 lab.

418 Writing in the Life Sciences (4)
Prereq: Jr, 15 hrs PBIO or BIOS (winter) *S. Wyatt*. Current research and public controversy dealing with topics in biology and plant science will provide students with opportunities to practice and master skills needed for successful written communication in the fields of plant science and biology. No credit toward major. 4 lec.

420 Phycology (5)
Prereq: 111 or 211. (spring, odd years) *M. Vis-Chiasson*. Taxonomy and ecology of marine and freshwater algae, with emphasis on identification and distribution of common or representative genera. 3 lec, 4 lab.

424 Plant Physiology (6)
Prereq: 210 or 353; organic chemistry recommended. (spring) *A. Faik*. Basic chemical and physical aspects of plant processes; photosynthesis, respiration, mineral nutrition, transport, nitrogen metabolism, water relations, and growth. 3 lec, 4 lab.

426 Physiological Plant Ecology (5)
Prereq: 209 or 425. (spring, odd years) *K. Brown*. A survey of the complexity of plant physiological and structural adaptations that relate to their ecological performance. Comparisons of plant characteristics from many biomes. Emphasis on reading and discussing peer-reviewed literature. Labs feature hands-on learning of microclimate techniques, physiological protocols, synthesis and interpretation of data. 3 lec, 4 lab, 1 Saturday field trip.

427 Molecular Genetics (3)
Prereq: 331 or 431 or BIOS 325, organic chemistry. (spring) *A. Showalter*. Genetic fine structure and function at the molecular level; biochemical aspects of heredity in micro-organisms, plants, and animals; recombinant DNA and genetic engineering. 3 lec.

431 Plant Cell Biology (5)
Prereq: 110 or 114 or BIOS 170. (fall) *A. Faik*. Structure and function of cells, organelles, and cellular inclusions. 3 lec, 4 lab.

435 Plant Population Biology (5)
Prereq: PBIO 209 or 425 or BIOS 375 (winter, even years) *G. Matlack*. Acquaint students with basic demographic processes as experienced by plant populations; 2) explore the demographic implications of a range of plant growth forms and life histories; 3) present the material in the context of a variety of models. The course will take an evolutionary/behavioral approach to plant populations. 3 lec, 4 lab.

436 Plant Community Ecology (5)
Prereq: PBIO 209 or 425 or BIOS 375; PSY 221 (fall, even years) *B. McCarthy*. Advanced concepts and theory of plant community ecology. Emphasis will be placed on the interplay between theory and empirical studies. Classic literature will be reviewed and case studies developed from the modern literature to explore current ideas of theory, approach, and experimentation. Laboratories will emphasize modern field methods of vegetation analysis and environmental assessment. 3 lec, 4 lab.

437 Ecosystem Ecology (4)
Prereq: CHEM 122 or 152; PBIO 209 or BIOS 375 (fall) *K. Brown*. Analysis of the composition, function, and heterogeneity of ecosystems. Topics include: atmospheric, climate and geological controls on ecosystem function, comparisons of aquatic and terrestrial ecosystems, ecosystem production, nutrient cycling and trophic dynamics. Synthesis with evaluation of human impacts on ecosystems, locally and globally. 4 lec.

442 Experimental Anatomy of Plant Development (6)
Prereq: PBIO 210 or 424 (winter) *S. Wyatt* and *G. Rothwell*. The concepts of plant development have been integrated with the descriptive assessment of cell, tissue, and organ types that are the mainstay of plant anatomy to provide an exciting opportunity for all plant biologists. The course is grounded in experimentation and includes cutting edge methodologies. 3 lec, 6 lab. *This is a Tier III equivalent course.*

450 Biotechnology and Genetic Engineering (4)
Prereq: 110 or 114 or BIOS 170. (fall) *A. Showalter*. For upper level undergraduate students. Introduction to basic molecular biological concepts and techniques in biotechnology and genetic engineering, including discussion of current experimentation and progress in these fields. 4 lec.

460 Paleobotany (6)
111 or 211 *G. Rothwell*. Morphology and evolution of representative fossil plant groups. 3 lec, 6 lab.

475 Plant Speciation and Evolution (3)
Prereq: jr or sr majors in PBIO, BIOS. (winter, even years) *H. Ballard*. Principles of evolution of plants and current topics in evolutionary biology. 3 lec.

480 Molecular Approaches in Plant Systematics, Ecology and Evolution (5)
Prereq: 111 or 211 or BIOS 170 (winter, odd years) *H. Ballard*. Overview of comparative molecular approaches used to infer relationships in plants at level of populations, species and lineages. 3 lec, 4 lab.

485 Plant Biology Capstone (6)
Prereq: (PBIO 209 and PBIO 211) and (PBIO 322 or PBIO 409). Capstone short-term field course for natural science majors, integrating principles across organismal plant biology and related disciplines, in a selected (often international) region. 4 lec, 4 lab.

490 Internship (max 10)
Prereq: permission. Provides students with credit for work experience in various applied fields of botany and environmental biology. Overseen by a faculty member and evaluated by the on-the-job supervisor. Report culminates experience.

497T Plant Biology Tutorial (1-15)
Prereq: Tutorial college. (fall)

498T Plant Biology Tutorial (1-15)
Prereq: Tutorial college. (winter)

499T Plant Biology Tutorial (1-15)
Prereq: Tutorial college. (spring)

499H Thesis (3-6)
Prereq: PBIO 404 or 407, g.p.a. of at least 3.5. Preparation of an honors thesis based on original research. No credit if PBIO 406 taken.

Environmental Engineering Technology (EVT)

The following courses for the A.A.S. in environmental engineering technology are available only on the Chillicothe campus:

100 Introduction to Environmental Engineering Technology (3)
Topics include toxicology, air pollution, groundwater contamination, transportation of hazardous materials, waste characterization, waste management, and waste treatment and disposal, with discussion of how regulations affect each.

110 Computational Methods in Environmental Engineering Technology (3)
Emphasizes the principles of data treatment, including experimental error recognition, statistical analysis, and graphical data techniques using up-to-date computer software. Computers and programmable calculators will be required for writing lab reports. 3 lec, 2 lab.

115 Legal Aspects of Environmental Engineering (2)
Introduction to legal aspects of the rights and duties of the individual, business, and society with regard to the environment, and the consequences of future environmental legislation. Investigates environmental legislation and regulations and examines case studies highlighting the existing laws.

120 Introduction to Environmental Chemistry (3)
Prereq: CHEM 121 or 151. Environmental chemistry as applied to aquatic, atmospheric, soil, and hazardous waste systems. Topics include environmental chemical cycles; aquatic, atmospheric, and soil chemistry; environmental chemistry of hazardous wastes; and toxicology. 2 lec, 2 lab.

125 HAZWOPER Training (3)
Provides certification required to work on a majority of environmental cleanup sites. Covers regulatory obligations, handling hazardous materials, personal protective equipment, monitoring instrumentation, emergency response, site control, medical assessment, confined space entry, and respiratory protection. 3 lec, 2 lab.

125L HAZWOPER Training Laboratory (1)

Emphasizes handling hazardous materials with use of personal protective equipment, instrumentation, and equipment. Outdoor simulations and demonstrations included. 3 lab.

140 Introduction to Air Pollution (3)

Prereq: 110; CHEM 121 or 151. Principal types; sources; dispersion; effects; and physical, economic, and legal aspects of controlling atmospheric pollutants. Emphasizes atmospheric chemical reactions due to air pollutant emissions.

150 Instrumentation in Environmental Analysis (3)

Prereq: 110; CHEM 121 or 151. Provides foundation for understanding principles behind instrumentation used for environmental analysis. Gas chromatographs, mass spectrometers, infrared spectrophotometers, FIDs, and PIDs are studied. 3 lec, 3 lab.

190 Internship/Practicum/Cooperative Education (1, max 20)

Required for students on approved work assignments. Must submit final report on work activities. Credit is not applicable toward specific degree requirements but will accumulate in academic credit total.

198A-Z Special Topics (1-5, max 20)

Provides an opportunity to complete individual projects that involve special topics concerning environmental engineering technology problems.

200 Site Investigation, Sampling, and Monitoring (3)

Prereq: 110. Field-oriented course involving hazardous materials site investigation, characterization, and cleanup. Topics are planning and organization, training and medical programs, site assessment, sampling and monitoring, site control, hazardous materials handling, and emergency response.

200L Site Investigation, Sampling, and Monitoring Laboratory (1)

Prereq: 110. Field-oriented course involving hazardous materials site investigation, characterization, and cleanup. Topics are planning and organization, training and medical programs, site assessment, sampling and monitoring, site control, hazardous materials handling, and emergency response. 3 lab.

210 Introduction to Health Physics (3)

Addresses fundamental principles of health physics and radiation protection. Topics include atomic structure, types of radiation, radioactive decay, methods of radiation detection, dosimetry, biological effects, and radiation protection.

210L Health Physics Laboratory (1)

Emphasizes use of health physics instrumentation including rate meters, scintillation cells, radon detection, and gamma spectrometry as they apply to personal and environmental monitoring. 3 lab.

220 Fluid Mechanics (3)

Prereq: 110. Fundamentals of fluid mechanics as applied to surface and groundwater, wastewater, and air emissions management. Topics include basic hydraulics, friction loss, pressure, flow measurement, pump types and characteristics, and schematic interpretation.

240 Air Sampling and Analysis (3)

Prereq: 110, 140. Provides practical field experience in ambient air and indoor sampling. Instrumentation is used to provide real-time data collection and analysis. Emphasis on methods that determine the concentration of normally encountered air pollutants.

240L Air Sampling and Analysis Laboratory (1)

Prereq: 110, 140. Emphasizes air flow measurements using devices that demonstrate volumetric displacement, velocity impaction, viscosity, and pressure. Provides techniques for determining accuracy, precision or repeatability, and calibration. 3 lab.

245 Wastewater Treatment (3)

Prereq: 110, 120. Introduction to wastewater treatment technologies. Covers regulations and phases of treatment for wastewater treatment systems, liquid/solid waste streams, and basic system process control.

250 Analysis of Environmental Pollutants (3)

Prereq: CHEM 121 and 122, or 151 and 152. Covers important techniques necessary for analyzing environmental samples. Methods established by EPA are used to analyze samples for heavy metals, volatiles, and semi-volatiles.

250L Analysis of Environmental Pollutants Laboratory (1)

Prereq: CHEM 121 and 122, or 151 and 152. Emphasizes lab instrumentation such as GC/MS, AA, and IR spectrophotometer. Lab reports required from the analysis of soil and water samples. 3 lab.

260 Environmental Risk Assessment (3)

Analyzes risk assessment process applied to environmental problems. Uncertainty factors, risk analysis, and exposure characterization, fate, and transport models will be addressed.

290 Internship/Practicum/Cooperative Education (1, max 20)

Required for students on approved work assignments. Must submit final report on work activities. Credit is not applicable toward specific degree requirements but will accumulate in academic credit total.

298A-Z Special Topics (1-5, max 20)

Provides an opportunity to complete individual projects that involve special topics concerning environmental engineering technology problems.

Equine Studies (EQU)

The following courses for the A.A.S. in equine studies are available only on the Southern campus:

101 Introduction to Equine Studies (4)

Overview of the history of the horse, evaluation, selection, breeds, equipment, nutritional requirements, safe handling of horses, shoeing, equine reproduction, and career and leadership opportunities in the horse industry.

110 Equine Nutrition (4)

Study of the equine digestive system, nutrient requirements of horses at various levels of performance, and problems associated with feeds and feeding practices.

120 Equine Anatomy and Physiology (4)

Prereq: BIOL 101. Study of the structure and functions of the horse through the various anatomical systems.

125 Equine First Aid and Preventive Medicine (5)

First aid and emergency treatments, preventive medicine, diseases, and parasitism in horses.

130 Equine Evaluation and Selection (3)

Prereq: 101. Study of the types, evaluation, and selection of purebred horses.

200 Equine Reproduction (4)

Prereq: 101. Comprehensive study of equine reproduction stressing the anatomy and physiology of the stallion and mare and methods of breeding, including artificial insemination, and foaling.

215 Equine Business Management (4)

Prereq: CS 120. Study and practice of basic concepts, techniques, procedures of accounting involved in keeping and analyzing equine records from the management viewpoint. Designed to integrate general business concepts with common practices in the horse industry. Topics include general business laws, equine law, public relations, insurance, bookkeeping, contracts, taxes, and starting and maintaining a horse operation.

220 Farm and Stable Management (4)

Study of the management of a working horse farm. Topics include scheduling, budgeting, equipment use and maintenance, land management, facilities management, site selection and design, and safety.

225 Equestrian Teaching Techniques (3)

Study of the methods of teaching riding. Emphasis on the abilities and skills a good instructor must possess to teach riding as well as the safety, care, and evaluation of school horses. Students will develop and implement teaching plans for riders at the beginning level.

230 Comprehensive and Competitive Horse Judging (3)

Prereq: 130. Continuation of 130. Activity through which students can put assimilated knowledge to practical application and assess knowledge competing on the OU Horse Judging Team. Travel required. Written and oral defense also required.

235 Horse Show and Event Management (3)

Designed to provide students with the necessary tools to organize any show, event, or clinic related to the equine industry. Major topics include planning, fund raising, financing, insurance, record keeping, and advertising. Utilization of principles to plan and operate a horse show and/or clinic for OU-Southern or associated organization.

240 Basic Horse Shoeing (3)

Shoeing and balancing of pleasure and performance horses, corrective trimming, hoof health, anatomy of the leg and foot, and blacksmithing as a business.

250 Harnessing and Driving (1)

Knowledge and fundamental skills used in line driving, lunging, harnessing, and pleasure driving.

280 Fundamentals of Starting the Young Horse (2)

Prereq: PED 168, 172, 173, 176, 177, or 180. Development of advanced riding skills including handling, gentling, saddling, and riding a green-broke horse applying basic horsemanship skills.

281 Fundamentals of Starting the Young Horse II (2)

Prereq: 280. Continuing to develop advanced riding skills necessary to train a green broke horse by understanding and implementing specific standard training procedures. Student will have responsibility for an assigned young horse, teaching that horse to walk, trot, lope, back, and turn around under saddle. Horses will be trained according to their intended use.

282 Therapeutic Riding (3)

Study of the fundamental knowledge and skills related to the therapeutic riding concept. Topics include evaluating and training a horse for therapeutic riding activities, basic state and federal laws addressing people with disabilities, and behavioral concerns with identification of alternative approaches. A supervised experience in therapeutic riding techniques is part of the course.

283 Therapeutic Facility Design and Management (3)

This course makes students aware of the difficulties therapeutic riding clients face in day to day life. Through careful design and management, clients can ride safely and care for program horses.

284 Techniques for Teaching the Therapeutic Rider (4)

This course encourages students to understand and work with riders with disabilities and challenges. It is essential for instructors to research and know the issues these riders face and formulate lesson plans according to individual needs and goals.

285 Preparation for Therapeutic Riding Instructor Certification (3)

Designed to prepare students for the Registered Level Therapeutic Riding Exam offered by the North American Riding for the Handicapped Association. The course covers all components of the test and provides lecture and active experience with immediate evaluation and feedback.

286 Administrative Aspects of Therapeutic Riding (3)

Provides information on administrative issues and aspects of therapeutic riding, the riding center, and overall management. The course includes goal setting, strategic planning, legal issues, and working with boards.

287 Evaluation and Training of the Therapy Horse (2)

This course rounds out the therapeutic riding student's education to include evaluation and training of horses brought into a therapy program. This knowledge and awareness increases the safety and therapeutic value of the sessions for the therapeutic riding client.

290 Equine Field Experience (1-6)

Field experience which might include trips to horse farms, race tracks, veterinary clinics, museums, horse shows or events, or seminars offered through recognized organizations or individuals.

295 Equine Internship (1-6)

Practical experience in a specific area of equine studies pertinent to the individual's interests. Examples include working with breeders, trainers, farm and stable managers, riding instructors, breed associations or organizations, veterinarians, and related equine agencies.

299 Studies in Equine Issues (1-4)

Study of topics of current interest in the horse industry

Film (FILM)**201 Introduction to Film I (4) (2H)**

Prereq: soph. (fall) Studies in the history of world cinema, from 1895 to the present. Weekly screenings of silent and sound, American and international films.

202 Introduction to Film II (4) (2H)

Prereq: soph. (winter) Introduction to film analysis, with emphasis on formal aspects of film art such as sound, lighting, mise-en-scene, etc. Weekly screenings.

203 Introduction to Film III (4) (2H)

Prereq: soph. (spring) Special topics in film styles, genres, movements, and forms. Weekly screenings.

338 Studies in the Documentary Film (3)

Prereq: 203. (winter) Special topics in the history, theory, and criticism of documentary film and video. Weekly screenings.

340 Film Techniques (4)

Prereq: 201 Introduction to motion picture production techniques. Students will design, shoot, and edit their own projects.

343 Scriptwriting (4)

Prereq: 201 or 202. Introduction to craft of developing narrative screenplay. Workshop/tutorial approach to study of screenplay structure, format, dialogue, and theory culminating in a 20- to 30-minute completed script.

344J The Practice of Film Criticism (4) (1J)

Prereq: 201 or 202. Survey of film criticism examining styles and techniques of established film critics. Students assigned series of exercises in critical writing. Meets junior-level English requirement.

421 International Film I (4)

Prereq: 201. Analysis of the relationship between film and culture, with emphasis on how cultural meanings influence film aesthetics and the critical assessment of the medium. Films of several film-making nations such as Brazil, China, India, Sweden, and the United States will be screened for study.

422 International Film II (4)

Prereq: 201. The development of a nation's or cultural region's films is traced, with emphasis on contemporary works. Cultures under study will vary quarterly and may include the films of Brazil, China, Germany, Eastern Europe, Italy, Southeast Asia, etc.

423 International Film III (4)

Prereq: 201. The aesthetics and uses of film and related technologies in the study of both Western and non-Western peoples is studied, with emphasis on the ethnographic and documentary film. Assignments include field exercises with image-making equipment.

431 Film History I (4)

Prereq: 201 or 202. (fall) Advanced study of the history and historiography of the motion picture. Emphasis on alternatives to the film canon and revisionist approaches to film history. Weekly screenings.

432 Film History II (4)

Prereq: 201 or 202. (winter) Studies in the history of international silent and sound documentary film. Weekly screenings.

433 Film History III (4)

Prereq: 201 or 202. Studies in the history of international silent and sound experimental film. Weekly screenings.

444 Media Certs Management (4)

Practical assignments in association with the Athens International Film and Video Festival

451 Film Theory and Criticism I (4)

Prereq: 203. (fall) Introductory survey of classical and contemporary approaches to film theory and criticism. Weekly screenings.

452 Film Theory and Criticism II (4)

Prereq: 451. (winter) Advanced study of classical and contemporary approaches to film theory and criticism. Weekly screenings.

453 Film Theory and Criticism III (4)

Prereq: 452. (spring) Special topics in film theory and criticism, including auteurism, structuralism, formalism, and feminism. Weekly screenings.

461 Motion Picture Production I (5)

Prereq: Honors Tutorial College Film major. (fall) Professional 16mm film production. Instruction in basic camera and lighting technique, elementary film structure, and bench editing leading to production of individual silent film projects.

462 Motion Picture Production II (5)

Prereq: Honors Tutorial College Film major. (winter) Continuation of 361 introducing sound motion picture shooting and editing techniques, A and B roll preparation.

463 Motion Picture Production III (5)

Prereq: Honors Tutorial College Film major. (spring) Continuation of 362. Advanced sound motion picture production techniques.

471 Film Topics Seminar (1-5)

Prereq: perm. (fall) Investigation of selected motion picture topic announced in advance of registration. Focus may be scholarly/critical, industry related, or aspect of motion picture production or screenwriting. Topics and credit hours vary.

472 Film Topics Seminar (1-5)

Prereq: perm. (winter) See 471 for description.

473 Film Topics Seminar (1-5)

Prereq: perm. (spring) See 471 for description.

490 Individual Production Problems (1-5)

Prereq: perm. Individual production of motion picture. May be repeated.

491 Individual Readings (1-5)

Prereq: perm. Readings and reports on works related to motion pictures. Reading list is selected by student in consultation with faculty member. May be repeated.

492 Independent Study (1-5, max 10)

Prereq: perm. Advanced individual creative or scholarly work in film.

497T Film Tutorial (1-15)

Prereq: Honors Tutorial College Film Major

498T Film Tutorial (1-15)

Prereq: Honors Tutorial College Film Major

499T Film Tutorial (1-15)

Prereq: Honors Tutorial College Film Major

Finance (FIN)**102 Personal Money Management (4)**

Prereq: fr/soph only. How to live better financially. Relation of personal goals to money management in terms of expenditures, savings, and tax considerations. Financial media that serve the individual such as life insurance, savings, securities, and consumer and mortgage credit.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

301 Fundamentals of Finance (4)

Prereq: ACCT 102 and QBA 201 or PSY 221 or ECON 381 or COMS 301 or GEOG 271 or MATH 251; no credit for COB students. Problems in managing personal finances. Budgeting expenditures and savings. Planning life insurance program, investment in savings accounts, securities, and other financial assets. Use of consumer and mortgage credit. Personal taxes.

310 Foundations of Financial Management (4)

Prereq: ACCT 102, QBA 201 or PSY 221 or ECON 381 or COMS 301 or GEOG 271 or MATH 251; no credit for COB majors. This course introduces the student to the basic principles of short-term and long-term corporate financial management.

325 Foundations of Finance (4)

Prereq: COB and ACCT 102; QBA 201 or PSY 120, 121, or 221 or ECON 381 or COMS 301 or GEOG 271; jr. Role of financial management in business enterprise; financial analysis; planning needs for

short-term and long-term funds; planning for profits; capital budgeting, internal management of working capital and income; raising funds to finance growth of business enterprises.

327 Financial Markets and Institutions (4)

Prereq: FIN 325, jr and perm. Flow of funds and interest-price movements in money and capital markets. Supply of loanable funds and demand for funds in mortgage loan market, consumer credit market, corporate securities markets, and markets for government securities and municipal obligations. Consideration of effects on financial markets of Federal Reserve and Treasury policies.

331 Risk and Insurance (4)

Prereq: jr or sr and perm. Social importance of risk and its place in personal, business, and national life, including principles and methods of handling risk. Special interest in technique of insurance.

341 Investments (4)

Prereq: 325. Principles in determination of investment media for individual and institutional portfolios. Sources of investment information, analysis of financial statements, investment risks and yields. Securities markets and their behavior.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

410 Personal Financial Planning (4)

Prereq: 325. Introduction to financial planning for individuals. This course will survey the topics of money management, insurance planning, investment planning, retirement planning, and estate planning.

420 Financial Banking Law (4)

Prereq: jr. This course is designed for students seeking to understand the law and policy of banking and financial institutions (bank, thrift, and credit union). The course emphasizes economic, historical, and legal background of financial institutions; the financial institution regulatory process; and consumer laws.

428 Management of Financial Institutions (4)

Prereq: 327 or perm. Analysis of objectives, functions, practices, and problems of financial institutions as viewed by management of these institutions.

436 Life Insurance (4)

Prereq: 331, perm. Fundamental economics of life insurance. Principles and practices of life insurance including types of contracts, group and industrial insurance, and annuities.

437 Personal and Business Financial Planning (4)

Prereq: jr, 331. Basics of IRS as it applies to personal and corporate taxes, as well as completion of form 1040. Information required on advising clients, as well as personal, concerning estate planning, taxes, trusts, gifts, etc., and how to gather information.

440 Group Insurance and Employee Benefits (4)

Prereq: FIN 331. The study of group life insurance, health insurance and pensions; application to "real life" employee benefits; and exposure to guest speakers from the insurance and securities industry.

441 Business Insurance and Estate Cases (4)

Prereq: two from among 436, 437, 439, and 440. A summary course for students in the risk and insurance field. New cases assigned each week requiring presentations in class and written recommendations on selected case studies presented by small student groups. Lectures by practicing professionals from related disciplines (law, accounting, trusts, employee benefits) are scheduled to demonstrate the broad nature of estate planning practice.

442 Security Analysis (4)

Prereq: FIN 341. Equity security analysis using various quantitative and qualitative methods.

444 Risk Management (4)

Prereq: 327 or perm. Description of derivatives markets, trading, and institutions. Text is supplemented by current readings and derivatives trading simulations.

445 Portfolio Management (4)

Prereq: 341, perm. Decision-making processes in management of individual and institutional securities portfolios. Theoretical foundations of portfolio selection and construction. Mode-building and other criteria applicable to selection, risk-return tradeoffs, revision and evaluation of portfolio performance. Applications of computer technology and other quantitative techniques to different aspects of portfolio management.

450 Credit and Lending Principles of Financial Institutions (4)

Prereq: 325. Provides examination of basic functions involved in supplying credit to borrowers by financial institutions. Organizational framework and division aspects of process studied. Significant policy issues and implications covered.

452 Small Business Finance (4)

Prereq: 325. Application of basic financial management techniques to small business environment (100 or fewer employees). Problems faced by persons who start small business and recommendations for alternative solutions to most commonly discovered problems. Micro view, nuts-and-bolts approach used throughout course, but consistent with broad macro overview set of company objectives.

455 International Finance (4)

Prereq: 325. Problems in international finance. Financing international trade and other transactions; foreign exchange market, exchange market, and exchange rates; international payments system. Foreign central banking and current developments in international financing cooperation.

461 Financial Management and Policy (4)

Prereq: 327 and 341, perm. Case study of financial management in business enterprises. Planning current and long-run financial needs, profit planning, allocation of funds, raising funds, dividend policies, expansion and combination, recapitalization and reorganization. *Tier III equivalent course.*

463 Capital Allocation (4)

Prereq: 325, perm. Planning capital outlays. Methods for ranking investment proposals. Theories of financial structure and cost of capital. Approaches to investment decisions under conditions of uncertainty.

465 Mathematical Analysis of Financial Decisions (4)

Prereq: 325, perm. Application of quantitative methods to financial management, with special emphasis on systems approach to evaluating proposed financial decisions.

491 Seminar (3, 4, or 5)

Prereq: perm. Selected topics of current interest in finance area.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of finance under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Foreign Languages and Literatures

includes: International Literatures in English and Modern Languages (Introductory Culture and Civilization; Professional Courses)

Chinese (Asian) (CHIN)

111 Elementary Chinese (4)
(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Chinese (4)
Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Chinese (4)
Prereq: 112 or equiv. (spring) Continuation of 112.

169A Spoken Business Chinese (4)

A task-oriented introduction to the basic communicative functions and business terminologies of the Chinese language. Chinese culture and alphabetic Chinese writing will also be introduced; the Chinese character writing system will not be used. Does not satisfy the foreign language requirement.

211 Intermediate Chinese (4) (2C)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Chinese (4) (2C)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Chinese (4) (2C)

Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Chinese (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Chinese (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Chinese (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

399 Special Studies in Chinese (1-3)

Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Chinese language and culture.

French (Romance) (FR)**111 Elementary French (4)**

Beginning course of 3-qr, 1st-yr sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening comprehension, speaking, and writing skills. Basic text and workbook used. Lab required. No credit if 199.

112 Elementary French (4)

Prereq: 111. Continuation of 111. Basic text, workbook, and readings used. Lab required. No credit if 199.

113 Elementary French (4)

Prereq: 112. Continuation of 112. Basic text, workbook, and readings used. Lab required. No credit if 199.

199 French for Review (4)

No CR if 111, 112 or 113. (fall) Preparation for FR 211 for students with some high school French. Review of grammar and vocabulary with intensive practice adapted to college-level expectations and instructional techniques. Emphasis on speaking, listening, reading, and writing. Does not satisfy language or humanities requirements in Arts and Sciences.

211 Intermediate French (4) (2C)

Prereq: 113 or 2 or 3 yrs h.s. French. 1st course of 3-qr intermediate-level sequence. Intensive review of grammar. Additional readings with discussion in French. Supplemental cultural material.

212 Intermediate French (4) (2C)

Prereq: 211 or perm. Continuation of 211.

213 Intermediate French (4) (2C)

Prereq: 212 or 4-5 yrs h.s. French. Reading and discussion of selected modern works. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in French (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving French language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. Speaking and writing based on readings and assigned topics. Grammar review.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. Continuation of 341.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. Continuation of 342.

345 French for Business (4)

Prereq: 343. Profession-oriented language and culture training in French. Reading, writing, listening, and speaking skills are emphasized in a business context.

348 French Civilization and Culture (4)

Prereq: 341 or 342 or 343. Social, political, and cultural history of France from Middle Ages to Revolution. Readings, discussions, class reports, and short papers.

349 French Civilization and Culture (4)

Prereq: 341 or 342 or 343. (spring) Continuation

of 348, covering 1799 to present. France in the modern world

354 Introduction to Reading French Literature (4)

Prereq: 341 or 342 or 343. Designed to prepare students to meet the challenges of advanced literature courses. Close reading techniques will enable students to read modern French works with speed and comprehension. Basic aspects of literary analysis and theory will be emphasized.

355 Introduction to Prose (4)

Prereq: 354. Reading and discussion of French novels, short stories, and other narrative genres representing various literary traditions.

356 Introduction to Drama and Poetry (4)

Prereq: 354. Reading and discussion of French drama, as literary text and theatrical performance, and lyric poetry from several historical periods.

396 Internship in French (1-5)

Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major.

415 French Literature of the Renaissance (4)

Prereq: 354; 355 or 356. Major 16th-century poets, including Du Bellay and Ronsard.

416 French Literature of the Renaissance (4)

Prereq: 354; 355 or 356. Major 16th-century prose writers, including Rabelais and Montaigne.

418 17th-Century French Literature (4)

Prereq: 354; 355 or 356. Works by numerous authors, including at least some of the following: Descartes, Pascal, La Fayette, La Rochefoucauld, La Bruyère, La Fontaine, and Boileau.

419 17th-Century French Literature (4)

Prereq: 354; 355 or 356. Major plays of Corneille, Racine, and Molière.

423 18th Century (4)

Prereq: 354; 355 or 356. French literature and thought in Age of Enlightenment.

424 18th Century (4)

Prereq: 354; 355 or 356. Continuation of 423.

425 Romanticism (4)

Prereq: 354; 355 or 356. Romanticism in drama, poetry, and fiction of first half of 19th century.

426 Realism and Naturalism (4)

Prereq: 354; 355 or 356. Major fictional works of 19th century.

427 French Poetry in the Second Half of the 19th Century (4)

Prereq: 354; 355 or 356. Poetry of Baudelaire, Verlaine, Rimbaud, Mallarmé, and others.

429 20th-Century French Literature I (4)

Prereq: 354; 355 or 356. French prose fiction before WWII.

431 20th-Century French Literature II (4)

Prereq: 354; 355 or 356. French prose fiction since WWII.

433 20th-Century French Literature III (4)

Prereq: 354; 355 or 356. French drama of the 20th century.

434 French Through Film (4)

Prereq: 342. Early development of the French cinema and its more recent filmmakers, actors, and actresses. Films are studied in their cultural and historical contexts. Students increase their French proficiency through listening, speaking, reading, and writing.

435 Proseminar (1-4, max 12)

Prereq: 354; 355 or 356. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (4)

Prereq: 343 or perm. (fall) Systematic study of segmental and prosodic elements of French pronunciation including extensive oral practice.

439 Modern French Usage (4)

Prereq: 343 or perm. (winter) Fine points of grammar. Practice in composition and analysis of texts.

440 Teaching French: Theory and Practice (4)

Prereq: 343. Provides an introduction to current theories about learning and teaching modern foreign languages, with a focus on

the particularities of teaching French language and cultures; opportunities to apply that theoretical knowledge to classroom teaching; and opportunities to develop a deeper knowledge of and more proficiency in French language and cultures. Does not count for major.

441 Stylistics and Criticism (4)

Prereq: 343 or perm. (spring) Composition. Explication de texte. Translation of English into French. Study of French prosody.

454 Francophone Literature of Sub-Saharan Africa, Maghreb, and the Caribbean (4)

Prereq: 355 or 356. Representative works by 20th century Francophone Sub-Saharan, Maghreb, and Caribbean writers, including at least, but not limited to, Malika Mokeddem, Leopold Senghor, Ferdinand Oyono, Maryse Conde, and Simone Schwartz-Bart. Works are studies in their historical and cultural contexts. Readings, lectures, films, and discussions.

464 Francophone Literature of Quebec (4)

Prereq: 355 or 356. Representative works by 20th century writers of Quebec including at least, but not limited to, Anne Hébert, Roch Carrier, Michel Tremblay, Marie-Claire Blais, and Yves Beauchemin. Works are studied in their historical and cultural contexts. Readings, lectures, films, and discussions.

498 Independent Study in French (1-2, max 4)

Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of two credits may count toward minor.

German (Germanic) (GER)

111 Elementary German (4)

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Beginning course of 3-qr 1st-yr sequence.

112 Elementary German (4)

Prereq: 111. Continuation of 111

113 Elementary German (4)

Prereq: 112. Continuation of 112. Continued development of skills of oral and written production and comprehension.

211 Intermediate German (4) (2C)

Prereq: 113 or 2 or 3 yrs h.s. German. Continued development of listening comprehension, reading, writing, and speaking skills. Grammar review. Lab required. 1st course of 3-qr intermediate-level sequence.

212 Intermediate German (4) (2C)

Prereq: 211 or perm. Continuation of 211. Emphasis on discussion of modern texts. Continued development of listening comprehension and speaking and writing skills. Lab required.

213 Intermediate German (4) (2C)

Prereq: 212 or 4-5 yrs h.s. German. Modern German texts are read and form basis for discussions and written assignments. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

235 German Drama on Stage (1-4)

(winter) Presentation of German drama on stage. Private coaching in pronunciation and inflection of German. Credit varies according to role of student. May be repeated for credit with perm.

298 Independent Study in German (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving German language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm.

345 Business German (4)

Prereq: 342. Development of the student's linguistic abilities in German in a business context.

Readings, videos, and discussions will focus on business terminology and practices in German-speaking countries. Written assignments include preparing a resume and a letter of application in German.

348 German Culture and Civilization (4)

Prereq: 213 or perm. Historical, intellectual, and artistic aspects of German, Austrian, and Swiss culture from earliest times to present

349 German Culture and Civilization (4)

Prereq: 213 or perm. Continuation of 348.

355 Introduction to German Literature (4)

Prereq: 341 or perm. Study of major literary works, with emphasis on 18th and 19th centuries.

356 Introduction to German Literature (4)

Prereq: 341 or perm. Study of major literary works of 20th century.

396 Internship in German (1-5)

Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major

425 19th-Century German Literature (4)

Prereq: 355 and 356.

426 19th-Century German Literature (4)

Prereq: 355 and 356

427 19th-Century German Literature (4)

Prereq: 355 and 356.

429 20th-Century German Literature (4)

Prereq: 355 and 356.

430 20th-Century German Literature (4)

Prereq: 355 and 356.

431 20th-Century German Literature (4)

Prereq: 355 and 356.

433 German Lyric Poetry (4)

Prereq: 355 and 356. Interpretative and critical study of German lyric poetry

435 Proseminar (1-4, max 12)

Prereq: perm. Intensive analysis of major author, literary genre, or theme. When subject is changed, student may re-enroll.

439 Grammatical Structure (4)

Prereq: 343 or perm. Selected problems in analysis and classroom presentation of German morphology and syntax.

441 Stylistics (4)

Prereq: 343 or perm. Advanced writing and stylistic analysis. Practice in variety of nonfiction prose techniques.

453 The Age of Goethe (4)

Prereq: 355 and 356. Major works of Lessing, Schiller, and Goethe.

454 The Age of Goethe (4)

Prereq: 355 and 356. Continuation of 453. See 453 for description.

455 The Age of Goethe (4)

Prereq: 355 and 356. Continuation of 453 and 454. See 453 for description.

498 Independent Study in German (1-2, max 4)

Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of two credits may count toward minor.

Greek (GK)

111 Beginning Greek (4)

Grammar, vocabulary, and reading of ancient Greek. Students will be introduced to Ionic, Attic, and Koine (New Testament) dialects.

112 Beginning Greek (4)

Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Greek (4)

Prereq: 112. Continuation of 111-112. See 111 for description.

211 Greek Prose and Poetry (4) (2H)

Prereq: 113. Review of language principles. Readings adapted to needs and interests.

212 Greek Prose and Poetry (4) (2H)

Prereq: 211. Continuation of 211. See 211 for description.

213 Greek Prose and Poetry (4) (2H)

Prereq: 212. Continuation of 211-212. See 211 for description.

251X Demotic Greek (4)

Beginning demotic (modern) Greek.

252X Demotic Greek (4)

Prereq: 251X. Continuation of demotic (modern) Greek.

253X Demotic Greek (4)

Prereq: 252X. Continuation of demotic (modern) Greek

311 Greek Epic Poets (4)

Readings in Greek from Homer and Hesiod.

312 Greek Tragedy (4)

Readings in Greek from Aeschylus, Sophocles, and/or Euripides.

313 Readings in Greek Intellectual History (4)

Readings in Greek from Plato, Thucydides, and/or the Sophists.

314 Greek Historians (4)

Readings in Greek from Herodotus and Thucydides.

315 Greek Comedy (4)

Readings in Greek from Aristophanes.

313 Readings in Greek Intellectual History (4)

Readings in Greek from Plato, Thucydides, and/or the Sophists.

314 Greek Historians (4)

Readings in Greek from Herodotus and Thucydides.

315 Greek Comedy (4)

Readings in Greek from Aristophanes.

316 The Greek New Testament and the Milieu of Early Christianity (4)

Readings in Greek from the New Testament, the early Greek fathers, and/or non-Christian writers of interest for the study of early Christianity.

409 Advanced Greek Readings (2-4, max 18)
Prereq: 21 hrs. (on demand) Selections adapted to needs and interests.

Indonesian/Malaysian (Asian) (INDO)

111 Elementary Indonesian/Malaysian (4) (fall)

Beginning course of 3-qr 1st-yr sequence.

112 Elementary Indonesian/Malaysian (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Indonesian/Malaysian (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Indonesian/Malaysian (4) (2C)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Indonesian/Malaysian (4) (2C)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Indonesian/Malaysian (4) (2C)

Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Indonesian/Malaysian (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Indonesian/Malaysian (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Indonesian/Malaysian (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

399 Special Studies (1-3, max 9)

Prereq: perm. Independent study of topic of interest in Indonesian/Malaysian language or literature.

International Literatures in English (ILL/ILML)

The lectures and readings for these courses are in English and are aimed at the entire University community. While they do not fulfill requirements toward any of the majors in foreign language, these courses will count toward the humanities area requirements of the College of Arts and Sciences. No credit is counted toward the foreign language requirement.

International Literature: Linguistics (ILL)

340 Traditional Literature of Southeast Asia (3)

(fall) Survey of traditional literature of Southeast Asia in English.

345 Modern Literature of Southeast Asia (3)

(winter) Survey of modern literature of Southeast Asia in English.

369A Women in Chinese Literature (4)
Introduction to Chinese language, culture, and society through reading in English translation of fictional representations of women in China.

International Literature: Modern Languages (ILML)

334(A-Z) Portuguese and Brazilian Literature in English (4)

Literature of Portugal or literature of Brazil in English translation. See schedule of classes for topics each quarter.

335(A-Z) Italian Literature in English (4)(2H)
Famous literary works of best Italian authors, presented in English. See schedule of classes for topics each quarter.

336(A-Z) Spanish Literature in English (4) (2H)

Topics may deal with either Spanish or Latin American literature. See schedule of classes for topics each quarter.

337(A-Z) French Literature in English (4)(2H)
Literary works by authors of French expression, read and discussed in English. See schedule of classes for topics each quarter.

338(A-Z) German Literature in English (4) (2H)
Survey of masterpieces of German literature, presented in English.

339(A-Z) Russian Literature in English (4)
Survey of Russian literature from beginnings to revolution, presented in English.

Italian (Romance) (ITAL)

111 Elementary Italian (4)

(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Italian (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Italian (4)

Prereq: 112. (spring) Continuation of 112.

211 Intermediate Italian (4) (2C)

Prereq: 113 or 2-3 yrs h.s. Italian. (fall) 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Italian (4) (2C)

Prereq: 211 or perm. (winter) Continuation of 211.

213 Intermediate Italian (4) (2C)

Prereq: 212 or 4-5 yrs h.s. Italian. (spring) Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. (fall)

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm.

396 Internship in Italian (1-5)

Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major.

Japanese (Asian) (JPN)

111 Elementary Japanese (4)

(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Japanese (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Japanese (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Japanese (4) (2C)

Prereq: 113 or equiv. (fall) 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Japanese (4) (2C)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Japanese (4) (2C)

Prereq: 212 or equiv. (spring) Continuation of 212.

251x Japanese Language and Culture I (4)

Prereq: 113. Study of Japanese culture and society through classwork and experiential activities that utilize the student's developing skills in the Japanese language. Students will be in Japan as part of the Chubu Study Abroad program.

252x Japanese Language and Culture II (4)

Prereq: 113. Study of Japanese culture through readings on contemporary Japan and interviews with Japanese people. Students will be in Japan as part of the Chubu Study Abroad program.

311 Advanced Japanese (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Japanese (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Japanese (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

338 Spoken Japanese I

Development of receptive and productive skills to engage in extended oral discourse in a wide range of interpersonal communicative situations. Emphasis on sociocultural aspects of language use.

341 Business Japanese I

Adaptation of productive and receptive skills introduced in JPN 111-213 courses specifically for use in the context of the contemporary Japanese workplace.

348 Readings in Japanese Culture I (4)

Prereq: 213x or 311 or perm. Social, political, and cultural aspects of modern Japan, through readings, discussions, class reports, and short papers. All work will be done in Japanese.

349 Readings in Japanese Culture II (4)

Prereq: 348. Social, political, and cultural aspects of modern Japan, through readings, discussions, class reports, and short papers. All work will be done in Japanese.

399 Special Studies in Japanese (1-3)

Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Japanese language and culture.

411 Fourth-Year Japanese (4)

Prereq: 313 or equiv. (fall) Beginning of fourth-year sequence.

412 Fourth-Year Japanese (4)

Prereq: 411 or equiv. Continuation of 411.

413 Fourth-Year Japanese (4)

Prereq: 412 or equiv. Continuation of 412.

Japanese Culture (JPC)

250 Introduction to Japanese Culture (4) (2C)

(spring) Introduction to cultural traditions of Japan and its language. English translations are used.

310 Field Study in Japan (2)

(spring) Cultural orientation designed to prepare students for study abroad in Japan. Taught in English.

450 Japan: A Sociocultural Interpretation (4)

(spring) Focused readings in English designed to broaden students' understanding of Japanese culture for personal, academic, or professional purposes.

Latin (LAT)

111 Beginning Latin (4)

Grammar, vocabulary, and reading.

112 Beginning Latin (4)

Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Latin (4)

Prereq: 112. Continuation of 111-112. See 111 for description.

211 Intermediate Latin (4) (2H)

Prereq: 113 or 2-3 yrs h.s. Latin. Review of language principles. Reading of prose and poetry.

212 Intermediate Latin (4) (2H)

Prereq: 211. Continuation of 211. See 211 for description.

213 Intermediate Latin (4) (2H)

Prereq: 212. Continuation of 211-212. See 211-212 for description.

351 Latin Prose and Poetry (4)

Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Review of essential Latin. Reading of Cicero's essays, play of Plautus or Terence, Horace's Odes and Epodes.

352 Latin Prose and Poetry (4)

Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Continuation of 351. See 351 for description.

353 Latin Prose and Poetry (4)

Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Continuation of 351-352. See 351 for description.

364 The Teaching of High School Latin (4)

Prereq: 213. (on demand) Content and methods of teaching h.s. Latin courses.

411 Latin Literature of the Republic (4)

Prereq: 353. Selections from works of Plautus, Terence, Caesar, Cicero, Lucretius, Catullus, and Sallust.

412 Latin Literature of the Republic (4)

Prereq: 353. Continuation of 411. See 411 for description.

413 Latin Literature of the Republic (4)

Prereq: 353. Continuation of 411-412. See 411 for description.

415 Latin Literature of the Early Empire (4)

Prereq: 353. Selections from works of Vergil, Horace, Livy, Ovid, Martial, Tacitus, Juvenal, and Pliny the Younger.

416 Latin Literature of the Early Empire (4)

Prereq: 353. Continuation of 415. See 415 for description.

417 Latin Literature of the Early Empire (4)

Prereq: 353. Continuation of 415-416. See 415 for description.

419 Readings in Latin Literature (4)

Prereq: 353. Selections complement students' other readings in Latin literature.

420 Readings in Latin Literature (4)

Prereq: 353. Continuation of 419. See 419 for description.

421 Readings in Latin Literature (4)

Prereq: 353. Continuation of 419-420. See 419 for description.

433 Advanced Latin Syntax (4)

Prereq: 353. Writing of Latin prose.

440 Special Work in Latin (1-6, max 12)

Prereq: 353. (on demand) Specialized work in selected phases of classical study.

Modern Languages (Introductory Culture and Civilization; Professional Courses) (ML)

Note: 250A-D, 410, and 445 do not count toward the major. With departmental approval 250A-D may be applied to the Arts and Sciences humanities requirement.

250A Field Studies in Austria (1-4, max 4)

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

250B Field Studies in France (1-4, max 4)

Prereq: perm. Use 250A for description.

250C Field Studies in Mexico (1-4, max 4)

Prereq: perm. Use 250A for description.

250D Field Studies in Spain (1-4, max 4)

Prereq: perm. Use 250A for description.

250E Field Studies in Russia (3)

Prereq: perm. Use 250A for description.

250F Field Studies in Germany (4)

Prereq: GER 111 or equiv. Designed to introduce participants in study abroad program to various aspects of life in target country.

250G Field Studies in Ecuador (4)

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

250K Field Studies in Quebec (4)

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

321J Writing in Two Languages (4) (1J)

Prereq: jr, fr comp, FR 213 or equiv. Course designed for the English-speaking student with two or more years of French (or course-specific language) who would like to improve his or her English writing skills using a comparative language approach.

370J Translation as Writing (4) (1J)

Prereq: fr comp, jr; 213 FL or Non-nat. An introduction to the practice and theory of translation into English with special emphasis on translation as a form of writing/composition. Analysis and discussion of good writing and of the students' own translations and compositions.

410 Technology in Language Teaching (4)

Prereq: EDCT 203 or perm. Use of computers and associated media as correlated with modern language classroom; instruction in selection, preparation, and use of instructional materials and tests, and in successful operation of computers, lab, and classroom equipment. Required of majors who plan to teach.

430 Video in Foreign Language Teaching (4)

Prereq: jr. This course will develop students' abilities to evaluate foreign language video materials, teach techniques for developing their own video programs, and familiarize them with methods for integrating authentic video into the foreign language curriculum.

435 Teaching Foreign Languages in the Elementary School (4)

Prereq: perm. Readings and discussions of the cognitive development of children and second language acquisition provide the basis for practical class work. Students design units and prepare learning activities to present in class. Lab experience includes 20 hours observation and participation on the elementary school level. Required of all foreign language majors who plan to teach.

445 Teaching of Modern Foreign Languages (4)

Prereq: perm. Not to be counted as hours above 200 for A.B. degree. Study, demonstration, and use of methods and materials for effective modern foreign language instruction. Required of majors who plan to teach.

Russian (Slavic) (RUS)**111 Elementary Russian (4)**

(fall) Introduction to alphabet, reading, writing, and basic grammar, development of speaking and comprehension skills. Beginning course of 3-qr 1st-yr sequence.

112 Elementary Russian (4)

Prereq: 111. (winter) Continuation of 111.

113 Elementary Russian (4)

Prereq: 112. (spring) Continuation of 112.

211 Intermediate Russian (4) (2C)

Prereq: 113 or 2-3 yrs h.s. Russian. (fall) Continued language study. Review and continuation of grammar. 1st course of 3-qr intermediate-level sequence.

212 Intermediate Russian (4) (2C)

Prereq: 211 or perm. (winter) Continuation of 211. Extensive reading, writing, listening, and oral practice.

213 Intermediate Russian (4) (2C)

Prereq: 212 or 4-5 yrs h.s. Russian. (spring) Accelerated reading, writing, listening, and oral practice. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in Russian (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films) on specific topics involving Russian language. Does not count toward minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. (fall) Development of conversation, reading, and writing skills. Advanced grammar.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. Continuation of 341.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. Continuation of 342.

348 The Cultural History of Russia (4)

Prereq: 213 or perm. Cultural development of Russia from the 10th to the 17th centuries. Readings and lectures in Russian.

349 The Cultural History of Russia (4)

Prereq: 213 or perm. Continuation of 348. Cultural movements in Russia from the 18th century to the present day. Readings and lectures in Russian.

355 Introduction to Russian Literature (4)

Prereq: 213 or perm. Introduction to literary terms. 19th-century literary movements and authors. Reading and lectures in Russian.

356 Introduction to Russian Literature (4)

Prereq: 213 or perm. 20th- and 21st-century developments in Russian literature. Reading and lectures in Russian.

396 Internship in Russian (1-5)

Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major.

412 19th-Century Russian Literature (4)

Prereq: 355, 356.

429 Russian Literature in the Soviet Era (4)

Prereq: 355, 356.

435 Proseminar (1-4, max 12)

Prereq: perm. Intensive analysis of major author, literary genre, or theme. May be repeated when subject is changed.

437 Applied Phonetics (4)

Prereq: 345 or perm. Systematic study of Russian pronunciation including extensive oral practice.

439 Structure of Modern Russian

Prereq: 343 or perm. Advanced grammar and syntax. Emphasis on reading and writing.

441 Stylistics (4)

Prereq: 343 or perm. Advanced writing and stylistic analysis. Practice in variety of nonfiction prose techniques.

498 Independent Study in Russian (1-2, max 4)

Prereq: 8 cr at the 300 level or perm. Directed individual readings, discussion, and reports at the advanced level. Does not count toward minor.

Spanish (Romance) (SPAN)**111 Elementary Spanish I (4)**

Developing proficiency in listening, reading, speaking, and writing essential to interactive language learning. First of a 3-course sequence of beginning Spanish.

112 Elementary Spanish II (4)

Prereq: 111. Continuation of 111. No credit if 199.

113 Elementary Spanish III (4)

Prereq: 112. Continuation of 112. No credit if 199.

199 Spanish for Review (4)

No CR if 111 or 112 or 113. Preparation for SPAN 211 for students with some high school Spanish. Review of grammar and vocabulary with intensive practice in adaptation to college-level expectations and instructional techniques. Emphasis on all four skills: speaking, listening, reading, and writing. Offered fall quarter. Does not satisfy language or humanities requirements.

211 Intermediate Spanish (4) (2C)

Prereq: 113 or 2-3 yrs h.s. Spanish. Culture-based approach to increase language proficiency. Students continue to develop listening, reading, speaking, and writing skills as they study the diverse history and customs of Spanish speakers around the world.

212 Intermediate Spanish (4) (2C)

Prereq: 211 or perm. Continuation of 211.

213 Intermediate Spanish (4) (2C)

Prereq: 212 or 4-5 yrs h.s. Spanish. Continuation of 212. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in Spanish (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Spanish language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. Conversation and discussion. Emphasis on writing skills.

342X Advanced Conversation and Composition (4)

Prereq: 341 or perm. Equal emphasis on speaking and writing. Offered only in Mexico.

343 Advanced Conversation and Composition (4)

Prereq: 341 or perm. Emphasis on speaking.

345 Business Spanish (4)

Prereq: 343. This course, designed for intermediate and advanced students of Spanish, enables them to achieve a higher level of competence in oral and written communication in order to help conduct business in the Spanish-speaking world. The course is suitable for business majors interested in working with Hispanic clients; international business majors, and undergraduate liberal arts majors wishing to expand their awareness of the Spanish language or seeking positions with companies doing international business.

348 Spanish Civilization and Culture (4)

Prereq: 341 and 343. Survey of Spanish civilization and culture.

349 Spanish American Civilization and Culture (4) (2C)

Prereq: 341 and 343. Survey of Spanish American civilization and culture.

350 Mexican Civilization and Culture (4)

Prereq: 213. Study of Mexican life, language, art, and their regional variation. Offered only in Mexico.

351 Mayan Civilization and Culture (4)

Prereq: 213. Examination of Mayan civilization of yesterday and today, with emphasis on its continuing presence in Yucatan. Offered only in Mexico.

352 Yucatecan Civilization (4)

Prereq: 213, perm of study abroad director. Introduces the student studying abroad with the Ohio University program in the Yucatan to the rich and diverse culture encountered there. Two sections—one theoretical and one applied—will allow the student to begin to understand the sometimes complex issues that form the Yucatecan personality and make it very different from that of other states in Mexico.

354 Dramatizations of the Hispanic World (4)

Prereq: 343. Selected Spanish and Spanish-American plays. Historical developments and movements in Hispanic theater. Terminology. Readings, lectures, and discussion.

355 Fictions of the Hispanic World (4)

Prereq: 343. Selected Spanish and Spanish-American novels and shorter fiction. Historical developments and movements in Hispanic narrative form. Terminology. Readings, lectures, and discussion.

356 Poetic Images of the Hispanic World (4)

Prereq: 343. Selected Spanish and Spanish-American poetry. Historical developments and tendencies in Hispanic verse. Movements and terminology. Readings, lectures, and discussion.

396 Internship in Spanish (1-5)

Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major. Proposals must be submitted beginning of quarter prior to internship.

398 Internship in Mexico (1-5)

Prereq: Prior SA in Mexico and perm of director. This ten-week internship is designed to help that student who already has studied abroad and has spent one quarter in Merida with the Ohio University program, and wishes to return to

Mexico to improve oral language skills within the context of an internship.

425 19th-Century Spanish Literature (1800–1850) (4)

Prereq: 2 of 345, 354, 355, 356. Romanticism, costumbrismo, and other movements in drama, essay, and poetry.

427 19th-Century Spanish Literature (1850–1900) (4)

Prereq: 2 of 345, 354, 355, 356. Evolution of the novel in 19th-century Spain, including novels selected from the work of the following: Valera, Pereda, Galdos, Alas, Pardo Bazan, Blasco Ibanez.

429 Generation of '98 (4)

Prereq: 2 of 345, 354, 355, 356. Representative works by early 20th-century Spanish writers, including at least some of the following: Azorin, Baroja, Valle-Inclan, A. Machado, Perez de Ayala, Ortega y Gasset, and Juan Ramon Jimenez.

432 20th Century Spanish Literature (4)

Prereq: 2 of 345, 354, 355, 356. Study of Spanish literature of various genres since 1925. The course may highlight the poetic generation of 1927, contemporary poetry or theater, or the novel of the democratic period.

435 Proseminar (1–4, max 12)

Prereq: perm. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (4)

Prereq: 343 or perm. Systematic description of the sound system of Spanish.

438 Hispanic Dialectology and Sociolinguistics (4)

Prereq: 343 or perm. Overview of major dialects of the Hispanic world and exploration of the sources of dialectal variation, e.g. age-based, gender-related and socio-cultural, among others. Readings, lectures, class presentations, and discussions.

439 Modern Spanish Usage (4)

Prereq: 343 or perm. The grammatical structure of modern Spanish.

440 Teaching Spanish: Theory and Methodology (4)

Prereq: 343. This course provides an introduction to the philosophy and theoretical orientation of the teaching of Spanish language and cultures; an introduction to issues in second-language-acquisition research, with a focus on Spanish; and opportunities to develop professional and instructional materials. Does not count toward major.

441 Stylistics (4)

Prereq: 343. Analysis of literary styles and study of techniques used to acquire correct style in writing Spanish.

443 Survey of Spanish American Literature (4)

Prereq: 2 of 345, 354, 355, 356. Main movements of Spanish American literature from colonial period through Modernismo.

444 Survey of Spanish American Literature (4)

Prereq: 2 of 345, 354, 355, 356. Continuation of 443. Main movements of Spanish American literature from Modernismo to contemporary period.

447 Themes from Spanish American Prose (4)

Prereq: 2 of 345, 354, 355, 356.

448 Contemporary Spanish American Literature (4)

Prereq: 2 of 345, 354, 355, 356.

450 History of Art in Spain (1500-present) (4)

Prereq: 2 of 345, 354, 355, 356. Survey of major artists and artistic movements in Spain from 1500 to the present; study of artistic patronage and history of Spanish museums.

453 Drama of the Golden Age (4)

Prereq: 2 of 345, 354, 355, 356. Works by Lope de Vega, Calderon de la Barca, Tirso de Molina, Juan Ruiz de Alarcón, and related dramatists.

454 Golden Age Poetry (4)

Prereq: 2 of 345, 354, 355, 356. Works by Garcilaso de la Vega, San Juan de la Cruz, Luis de León, Lope de Vega, Luis de Góngora, Francisco de Quevedo, and related poets.

455 Novel of the Golden Age (4)

Prereq: 2 of 345, 354, 355, 356. Picaresque novel, Cervantes' *Novelas Ejemplares*, and other examples of the novel from this period.

458 Don Quijote de la Mancha (4)

Prereq: 2 of 345, 354, 355, 356. Intensive study of Part One and Part Two of Spain's greatest novel.

498 Independent Study in Spanish (1–2, max 4)

Prereq: 8 credits at 300 level or perm. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hours required for major. Maximum of two credits may count toward minor.

Swahili (African) (SWAH)

111 Elementary Swahili (4)

(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Swahili (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Swahili (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Swahili (4) (2C)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Swahili (4) (2C)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Swahili (4) (2C)

Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Swahili (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Swahili (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Swahili (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

399 Special Studies in Swahili (1–3)

Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Swahili language and East African culture.

French

See Foreign Languages and Literatures.

Geography (GEOG)

101 Physical Geography (5) (2N)

Systematic survey of temperature, precipitation, atmospheric and oceanic circulation, and global systems of climate, soils, natural vegetation, and landforms. 4 lec, one 2-hr lab.

121 Human Geography (4) (2S)

Examination of spatial dimensions of culture, emphasizing patterns of selected cultural elements—language, religion, population, settlement, political and economic landscapes, and human/environment interactions.

131 Globalization and the Developing World (4) (2C)

Survey of globalization and its impact on development, international relations, and culture in developing countries around the world.

132 World Regional Geography: Industrial World (4) (2S)

Survey of selected geographic themes: development; people and resources; human and physical environments; and cultural patterns in Anglo-America, Western and Eastern Europe, the former U.S.S.R., Japan, and Australia.

201 Environmental Geography (4) (2A)

Geographic survey of environmental changes caused by human activities. Focus on resource availability and use, pollution of air, water, and biosphere, energy problems, interactions of humans with plant and animal communities. 3 lec, one 1-hr discussion section.

202 Introduction to Weather (5) (2N)

Students will gain experience in class and in labs in the analysis of weather maps. There will be particular emphasis on weather phenomena presented in the media (global warming, El Niño).

Data will be downloaded from website sources for use in the classroom and made available to students on the course Web site for study purposes. No credit if 101.

232 Geography of Ohio (4)

Detailed regional study of physical geography of Ohio and its cultural landscapes, settlement patterns, and economic development.

234 Geography of the United States and Canada (4)

Regional survey of North America including topical treatment of physical and cultural elements and intensive study of smaller regions.

241 Global Issues in Environmental Geography (4)

Prereq: 201. An inquiry approach to environmental issues of global scope such as human population growth, energy production and consumption, climatic change, deforestation, species depletion, disposal of wastes. Examination of the sustainability of human and natural systems.

268 Introduction to GIS and Mapping Sciences (4)

Introduction to spatial analysis and mapping techniques applied to geographical problems. Emphasis on acquiring basic skills using geographic information systems.

271 Introduction to Statistics in Geography (4)

Prereq: 268 or equiv. Introduction to application of statistics in geography. Includes descriptive statistics, descriptive spatial statistics, normal, poisson, and binomial probabilities, hypothesis testing, and inferential statistics through linear regression.

302 Meteorology (5)

Prereq: 101. General survey of meteorology with focus on physical principles explaining weather change. 4 lec; one 2-hr, Web-based lab. Credit not allowed for both 202 and 302.

303 Climatology (5)

Prereq: 302. Exchanges of energy and moisture and their significance to human utilization of the earth's surface. 4 lec; one 2-hr, Web-based lab.

304 Observations in Meteorology and Forecasting (2, max 4)

Prereq: 302. Lab experience in acquisition, measurement, and interpretation of meteorological parameters.

305 Practicum in Meteorological Forecasting (2)

Prereq: 304. Lab experience in preparation and dissemination of meteorological forecasts.

315 Landforms and Landscapes (5)

Prereq: 101 or GEOL 101. A topical approach to the study of landforms and landforming processes as fundamental elements of the physical environment. Includes landforms created by tectonism, volcanism, gravity, streams, glaciers, waves, and the wind. 4 lec, one 2-hr lab.

316 Biogeography (4)

Prereq: 101. An examination of the historical, environmental, and biotic influences that shape spatial patterns of plant and animal distributions and community structure in the contemporary landscape. (Cross-listed with BIOS.)

320 American Ethnic Geography (4)

Prereq: 121. Systematic and thematic survey of spatial and cultural patterns associated with ethnicity and ethnic groups in the United States. Emphasis on historical and spatial patterns of immigration, the experience of ethnic groups in American plural society, and ethnic contributions to American life.

321 Population Geography (4)

Prereq: jr and 8 hrs GEOG. Survey of global population concerns including historic and contemporary patterns of population growth, distribution, fertility, and impact of these on the environment and economic resources. Population policies and trends in international migration examined, as well as feminist/equity critiques of population as a development problem.

322 Settlement Geography (4)

Prereq: jr and 8 hrs GEOG. Survey of American rural settlement and its European antecedents. Emphasis on the evolution and regional variation in property, field, fence, and road patterns on farmsteads and in small towns.

325 Political Geography (4)

Prereq: 121 or perm. Systematic examination of basic approaches, historical development, special problems, and spatial concepts in political geography. Case studies emphasize nation-state.

326 Urban Geography (4)

Prereq: jr and 8 hrs GEOG. Geographic analysis of cities and urbanization. Examines spatial patterns of cities and factors that lead to growth, decline, and change in urban areas. Introduces models of land use, transportation, population distribution, ethnic patterns, segregation, employment, urban economies, and housing. Studies impacts of public policy changes and shifting social attitudes on spatial structure of cities, urban life, and city management.

327A Social Geographies (4)

Geographic analysis of social relations, social identities, and social inequalities. Examines the geography of social justice from the perspective of distinct groups (including race, class, gender, sexuality) and as it relates to various geographic themes, particularly concerning the environment, urban geography, and employment.

329 World Economic Geography (4)

Prereq: 121 or ECON 103. Survey of the capitalist world economy, the rise of core economies, (under) development in the periphery and global economic restructuring.

330 Geography of Western Europe (4)

Prereq: jr and 8 hrs GEOG. Topical survey of Europe with emphasis on the geographic and cultural historical factors that influenced landscape and regional patterns in the past and today.

331 Geography of Africa (4)

Prereq: jr and 8 hrs GEOG. Systematic examination of four themes in African geography with special emphasis on problems of development.

333 Appalachia: Land and People (4)

Prereq: one course in GEOG. Topical and regional survey of Appalachia with emphasis on settlement and expansion, land ownership and speculation, society and culture, and the impacts of natural resource extraction.

334 Historical Geography of the United States (4)

Prereq: 121 or HIST 211. Systematic and regional survey of past human geographies of the United States from 1450 until the present. Focus on the development of regional identity over time and space, and manifestations of regional identity in the cultural landscape.

335 Geography of Latin America (4)

Prereq: jr and 8 hrs GEOG. Regional survey of Latin America focusing on biophysical systems, rural development, population/migration, cultural geography, and economic development.

336 Geography of Religious Space and Place (4)

Prereq: jr. Systematic and regional survey of religious cultural landscapes of the world in comparative perspective. Emphasis on religion as a cornerstone of culture and its manifestations in the cultural landscape. Focus on sacred space and place, pilgrimage, and holy sites in selected religious belief systems.

337 Geography of Religion in the United States (4)

Prereq: jr. Regional and systematic survey of religious belief systems in the United States. Emphasis on the analysis of the development of regional religious patterns over time and space and the role played by religion in American life. Focus on selected regional and local manifestations of religious beliefs in the American cultural landscape.

338 Geography of Southeast Asia (4)

Prereq: jr and 8 hrs GEOG. Survey of physical geography, natural resources, population, food production, urbanism, and energy within selected regions.

344 Agricultural Ecosystems (4)

Prereq: jr and 8 hrs GEOG. Agricultural activity. Systematic analysis of agricultural change and sustainability of agricultural systems in the industrial and developing world. A spatial perspective on the globalization of agriculture, agro-biotechnology, and the future of agriculture.

350 Land Use Planning (4)

Prereq: jr and 8 hrs GEOG. Survey of land use issues including mapping, ownership, legal issues, zoning, conservation design in zoning, subdivision regulations, "takings," and habitat-conservation planning. Many practical applications are included in the class.

353 Environmental Planning (4)

Prereq: jr and 8 hrs GEOG. An introduction to the development, implementation, and operation of activities to guide landscape development. Emphasis on interaction between natural and social systems, methods of environmental analysis, and the evolution of environmental planning strategies.

357 Environmental Law (4)

Prereq: jr. Legal aspects of both individual environmental and societal environmental rights and duties with respect to constitution, private property, nuisance, negligence, statutes, regulatory agencies, and court decisions. Emphasis on case study of federal, state, and local laws which shaped existing law and those which are likely to shape future legislative and administrative action.

358 Environmental Risk Assessment (4)

Prereq: jr. Systematic introduction to the concepts, problems, and methods that guide the identification and assessment of environmental risk with emphasis on natural hazards and their geophysical dimensions.

360 Cartography I (5)

Introduction to digital cartographic design and cartographic visualization. Theory and practice of map design developed in weekly lab exercises. 3 lec, one 2-hr lab.

361 Cartography II (5)

Prereq: 360. Application of fundamentals of cartographic visualization to the design of thematic maps. 3 lec, one 2-hr lab.

365 Air Photo Interpretation (4)

Prereq: jr, 101. Principles, techniques, and practice in visual interpretation of air photographic and remote sensing imagery. For geographers, geologists, military, community planners, resource managers, engineers. 3 lec, 2 lab.

406 Introduction to Synoptic Meteorology (5)

Prereq: 305. The construction and analysis of meteorological models used in the prediction of meteorological phenomena.

407 Advanced Synoptic Meteorology (5)

Prereq: 406. Capstone course in meteorology. Advanced topics in synoptic meteorology. Includes lab.

411 Advanced Physical Geography (4)

Prereq: 101. Application of physical geographic principles to a specific advanced research theme.

417 Landscape Ecology (4)

Prereq: jr, 101 or permission. Explores the reciprocal relationship between pattern and process: how pattern is created on the landscape, and implications of spatial pattern on populations, communities, and ecosystems. Examines the role of humans in influencing landscape pattern and change.

418 Research Methods in Plant Biogeography (4)

Prereq: 316 or BIO 209 or permission. Integrated, problem-oriented introduction to modern biogeographical research techniques. Emphasis on a range of problems biogeographers address, relevant literature, and traditional and contemporary approaches to particular issues. Students will learn by experience how biogeographers gather and weigh evidence about natural and human processes, employ maps and databases to represent and model real-life situations, analyze spatial, temporal, and functional relationships, and communicate findings. 2 lec, 4 lab.

440 Environmental Impact Analysis (4)

Prereq: jr and 8 hrs GEOG. Introduction to analytic techniques, legal responsibilities, and administrative procedures in evaluating environmental impacts of land use change. Practice in production of environmental impact statements and in documenting scientific research.

447 Natural Resource Conservation (4)

Prereq: 241. Themes in American environmental

history, resource conservation and management, and contemporary environmentalism.

456 The City and the Environment (4)

Prereq: 201. Examination of historical and present-day environmental impacts of urban and suburban expansion in a North American context.

466 Principles of Remote Sensing (5)

Prereq: 268 or equiv. Systematic introduction to the principles and application of remote sensing stressing the fundamental characteristics of electromagnetic radiation, energy-atmosphere interactions, design of remote sensing instruments, and the techniques used to extract problem solving information from remote sensing data. Emphasis is given to digital image processing techniques and algorithms involved in measurement, analysis, and interpretation of electromagnetic energy collected by remote sensing instruments.

467 Remote Sensing Applications (5)

Prereq: 466. In-depth examination of advanced remote sensing methodologies and applications including advanced image processing, hyperspectral analysis, soft image classification, and sensor fusion, focused on their use in environmental geosciences.

468 Cartography III (5)

Prereq: 360 or perm. Advanced theory and practice of topics in cartographic visualization, such as cartographic production and pre-press, animation, and interactivity. 3 lec, one 2-hr lab.

471 Quantitative Methods (4)

Prereq: 271 or equiv. Systematic survey of methods of multivariate analysis used by geographers.

474 Application Development in GISc (4)

Prereq: 478. An introduction to the modification and creation of Geographic Information Systems and spatial databases. Also covers the topic of Web-based spatial data delivery.

475 GIS Modeling and Simulation (4)

Prereq: 478. Introduction to the methods of systems analysis and modeling and simulation directed to the study of physical, human, and environmental processes and their interaction at regional and global scales.

476 Field Methods (4)

Prereq: 271 or equiv. Introduction to geographic field methods and techniques. Field mapping, data collection, spatial sampling, data analysis, synthesis, and reporting. 2 lec, 4 lab.

478 Principles of GIS (5)

Prereq: 268 or equiv. Systematic introduction to the procedures and techniques that guide the design, implementation, and application of geographic information systems. 4 lec, one 2-hr lab.

479 Geographic Information Analysis (5)

Prereq: 478. In-depth examination of the methods of spatial data analysis and the utilization of GIS in geographic problem solving. 4 lec, one 2-hr lab.

481A Senior Seminar (4)

Capstone course that encourages the implementation of acquired knowledge from previous coursework. Involves an examination and application of topics relating to the history and philosophy of geographic thought.

485 Internship (1-15)

Prereq: jr, major, and permission. Provides qualifying students with credit for work-study experience in cartography, remote sensing, land use planning, resource management, and other fields of applied geography. Supervised by geography faculty and evaluated by on-the-job supervisor.

485A GIS Certificate Internship (5)

Prereq: GIS Certificate students only, and permission. Capstone experience on an applied GIS project, supervised by geography faculty member and evaluated by on-the-job supervisor.

486 Practicum in Cartography and Remote Sensing (2-5)

Prereq: 361, 466, jr, major, and perm. Individualized undergraduate thesis-level work— theoretical or practical—in cartography and/or remote sensing.

490 Geographic Studies (1-5, max 15)

Prereq: jr and perm. Supervised studies in fundamentals of geographic research.

494 Field Problems (1-5, max 5)

Prereq: major or perm. Research on field problem using standard geographic field methods.

Geological Sciences (GEOL)**101 Introduction to Geology (5) (2N)**

Nature and distribution of earth materials and their utilization as natural resources; discussion of earth structure, earthquakes, mountain building, and continental drift; development of landscapes. 4 lec, 2 lab. Not open to students who have had 283.

120 The Mobile Earth (4) (2N)

An examination of the earth's dynamic systems including continental drift, sea-floor spreading, mountain building, volcanic activity, and earthquakes, and their explanation in terms of plate tectonic theory. Intended for both science and nonscience majors seeking a nontechnical overview of plate tectonics. 4 lec.

130 Geology of the National Parks (4) (2N)

Survey of the geologic features of the national parks of the United States, emphasizing the history of their geologic development. 4 lec.

170 Metal, Stone, Energy, and Society (4) (2A)

D. Kidder. Survey of a broad array of Earth resources with the goal of examining the impact of those resources on society. The influence of plate tectonic processes and Earth's evolution on resource distribution will be considered. The manner in which technological changes in mineral processing are changing recycling rates and are fostering closer connections between industries, the environment, and society will be explored.

202 Introductory Geology Lab (1) (2N)

Prereq: 120 or 130 or 170 or 211 or 215 or 221 or 231; no credit if 101 or 283. Laboratory covering mineral and rock identification, topographic and geologic map reading, and geologic time for students planning to major or minor in the geological sciences.

205 Statistical Methods in Geology (4)

Prereq: 101 or 202 (spring) *M. Stoertz.* Elementary statistics applied to geologic data. Use of statistical software, spreadsheets, and tools for geologic data analysis (e.g., Rose and Stiff diagrams). Labs will use data sets from branches of geology including hydrology, sedimentology, geophysics, structural geology, and paleontology. 3 lec, 2 lab.

211 Introductory Oceanography (4) (2N)

D. Kidder. Survey of physical, chemical, biological, and geological aspects of oceanography. 4 lec.

215 Environmental Geology (4) (2A)

Survey of geological aspects of environmental crisis. Focus on major environmental processes, immediate and extended influence of humans, and prospects for future of physical environment. Presupposes no background in sciences. 4 lec.

221 Earth and Life History (4) (2N)

A nontechnical survey exploring the 4.5 billion year history of the interaction between life and the environment. Topics include the origin of the earth, the origin and development of life, the origin and evolution of the continents, the history of the atmosphere and ocean, catastrophic extinctions, and the impact of human evolution.

231 Water and Pollution (4) (2A)

The interrelationship between geologic and hydrologic principles and technology as they relate to the use of water resources and the environmental problems associated with its pollution.

255 Historical Geology (4)

Prereq: 101 or 202, (winter) *D. Kidder.* An introduction to the geologic history of the Earth, emphasizing the tectonic, stratigraphic, and climatic record of North America. 3 lec, 2 lab.

270 World Mineral Resources (3)

Prereq: soph. Major deposits of metal, nonmetallic, and fuel resources which form backbone of modern industry. Economics and basic geologic controls of mineral production reviewed. 3 lec with demonstrations. Not open to geology majors.

283 Geology for Engineers (4)

(fall) *G. Springer.* Geologic principles applied to engineering projects and materials. 3 lec, 2 lab. Not open to students who have had 101.

312 Earth Materials and Resources (5)

Prereq: 101 or 202, CHEM 122 or 152, nonmajors only. *G. Heien.* An introduction to minerals and rocks, emphasizing common varieties and those important as mineral resources. 3 lec, 4 lab.

315 Mineralogy (5)

Prereq: 101 or 202, CHEM 122 or 152, (fall) *G. Heien.* Crystallography, crystal chemistry, and mineralogy, emphasizing mineral identification and formation and association of minerals in different geologic environments. 3 lec, 4 lab.

320 Petrology (4)

Prereq: 315, (winter) *D. Schneider.* Characteristics and origin of igneous, sedimentary, and metamorphic rocks and their identification in hand specimens. 2 lec, 4 lab.

330 Principles of Geomorphology (5)

Prereq: 101 or 202. *G. Springer.* (spring) Basic concepts of origin and development of landforms. Lab study of topographic maps and aerial photographs. 4 lec, 2 lab.

340 Principles of Invertebrate Paleontology (4)

Prereq: 101 or 202, 255, (fall) *A. Stigall.* Invertebrate fossils emphasizing theory of their study, morphology, classification, and biologic relationships. 3 lec, 2 lab, field trip.

350 Stratigraphy-Sedimentology (4)

Prereq: 255 or concurrent, 320, (spring) *G. Nadon.* Introduction to principles of stratigraphy and sedimentation. Interpretation of depositional environments and their relation to plate tectonic setting. 3 lec, 2 lab.

360 Structural Geology (5)

Prereq: 350, (fall) *D. Nance.* Principles of rock deformation and interpretation of folding and faulting and related topics. Field-oriented structural problems, structural maps, and use of stereographic projections. 4 lec, 2 lab, field trip.

403 Solid Earth Geophysics (4)

Prereq: 101 or 202. *J. Libarkin.* Geophysical methods used to study the whole Earth, as applied to plate tectonics, seismology, gravity, magnetism, and isostasy.

405 Modeling and Computational Methods in Geology (5)

Prereq: CS 220 or 230, MATH 163B or 263B, GEOL 205 or MATH 250, (spring) *D. Lopez.* Applied computer-based mathematical methods in geology. Basic geostatistical concepts. Data analysis, conceptual models, and hypothesis testing in geological problems. Mathematical simulation of geological processes and analysis of solutions. Programming exercises in Fortran and use of software to model processes in hydrogeology, geochemistry, and other fields of geology. 4 lec, 2 lab.

420 Petrography (5)

Prereq: 320, 350, or concurrent, (spring) *D. Schneider.* Petrogenesis of igneous, metamorphic, and sedimentary rocks and their identification via microscopic analysis of thin sections. 3 lec, 4 lab.

427 Water Geochemistry (4)

Prereq: 101 or 202, CHEM 123 or 153, *D. Lopez.* (fall) Geochemical origin of major ions in natural waters and the role of fluid-mineral interactions in the evolution of sediments, the ocean, and the atmosphere. Major geochemical cycles. Introduction to thermodynamical equilibrium, kinetics, complexation, oxidation-reduction, and cation exchange. Case studies of important geochemical and environmental issues. 3 lec, 2 lab.

428 Physical Geochemistry (4)

Prereq: 427, *D. Lopez.* (winter, alt.) Basic principles of physical chemistry for hydrogeologic, environmental, and geologic applications. Topics include adsorption and desorption reactions, chemistry of sulphur and iron, introduction to stable isotopes, transport mechanisms of chemical species, and origin, formation, and migration of oil. 3 lec, 2 lab.

429 Contaminant Geochemistry (4)

Prereq: 427, *D. Lopez.* The main purpose of this course is to provide students with knowledge of the chemical principles and processes involved in the generation and movement of contaminants. It will give students an understanding of the sources, fate, and chemical behavior of some of the most important classes of chemical pollutants. 4 lec.

432 Origin and Classification of Soils (4)

Prereq: 330. *G. Springer.* Consideration of concept of soil and factors of soil formation, introduction to soil morphology and systems of soil classification, discussion of major soil groups of world and soils of Ohio. 3 lec, 2 lab, field work.

439 Fluvial Geomorphology (4)

Prereq: 330 or GEOL 315. *G. Springer.* Study of stream processes and human interactions with rivers, including the qualitative and quantitative techniques used to study natural and disturbed streams as presented in lecture and field settings. 4 lec.

443 Advanced Invertebrate Paleontology (5)

Prereq: 340, (winter) *A. Stigall.* Detailed topics may include paleobiogeography, macroevolutionary theory, phylogenetic theory and methods, and other advanced paleontologic methods. 3 lec, 2 lab.

446 Earth Systems Evolution (4)

Prereq: 312 or 350; PHYS 201 or 251, (winter) *T. Worsley.* Synthesis of the coupled histories of the earth's interior, surface, and life. 3 lec, 2 lab.

448 Paleocology (4)

Prereq: 340. *A. Stigall.* Examination of concepts of the relationship of organisms with their environment that can be effectively studied within the fossil record. Topics include competition, predation, ecologic convergence, community paleocology, and relationship to macroevolution. This course will be divided between lectures and discussions of current paleoecologic literature.

451 Diagenesis (4)

Prereq: 424 *D. Kidder.* Critical view of diagenetic principles using numerous examples. Many topics are selected from recent journal articles. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

452 Depositional Environments (4)

Prereq: 350. *D. Kidder.* Advanced coverage of depositional processes and environments. Latter part of course focuses on global sedimentation and events. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

453 Physical Limnology (4)

Prereq: 101 or 202, CHEM 123 or 153, (Fall) *E. Gierlowski-Kordecz.* Physical parameters and processes in lake environments, including temperature, light, heat, oxygen, alkalinity, and dissolved ions. Labs include outdoor sampling and measurements. 3 lec, 2 lab.

454 Carbonate Depositional Systems I (3)

Prereq: 350 or perm. (winter) *A. Stigall.* Study of carbonate rocks in the modern and geologic record, including patterns and processes of sedimentation and diagenesis as well as depositional models. Lectures, labs, and field trips.

454A Carbonate Depositional Systems II (2)

Prereq: 454 (spring) *A. Stigall.* Field study of Modern and Pleistocene carbonate sediments and depositional environments of the Bahamas. Week-long field trip during spring break with a post-field project.

457 Petroleum Geology (4)

Prereq: 360 or concurrent, (spring) *G. Nadon.* Course is designed for geology students at the senior undergraduate and graduate level. It will provide students with an understanding of the basic concepts and processes that govern a) the generation, migration, and trapping of hydrocarbon resources, and b) the fundamentals of exploration for, and exploitation of, these resources. 3 lec, 2 lab.

458 Fluvial Sedimentology (4)

Prereq: 350, (Fall) *G. Nadon.* Provides students with an understanding of how to interpret the depositional environment of sedimentary rocks deposited by rivers and the large and small-scale forces that control the formation and preservation of these deposits.

464 Regional Tectonics (4)

Prereq: 360, (spring) *D. Nance.* Global tectonics and structure of continental cratons and margins, mid-ocean ridges, island arcs, and major orogenic belts. 4 lec.

466 Geodynamics: The Earth's Interior (4)

Prereq: 312 or 320, (spring) *D. Green.* Solid earth geophysics (gravity, magnetism, seismicity, heat

flow) and internal structure, dynamics, and evolution of Earth's core, mantle, and crust. 4 lec.

467 Tectonophysics (4)

Prereq: MATH 340, PHYS 202 or 253. (winter) *D. Green*. Quantitative modeling of solid earth physical processes. Physical properties of minerals, rocks, and unconsolidated materials. Modeling of tectonic plate flexure, geothermal heat flow, seismic wave propagation, and fault mechanics. 4 lec.

471 Advanced Environmental Geology (4)

Prereq: 101 or 202, CHEM 123 or 153. (fall) *D. Lopez*. Covers the conceptual basis for understanding transport and reaction processes that govern change in many environmental systems. Emphasizes processes occurring at the three major environmental interfaces: air and water, water and the adjoining earth material, and air and soil. Includes chemical and thermal equilibrium, chemical transport, and transport and transfer of energy across the interfaces. 4 lec.

473 Forensic Geoscience (4)

Prereq: 350 or CHEM 433 or BIOS 364 or ANTH 447. *G. Nadon, D. Green*. Introduction to geologic, geophysical, and geochemical techniques employed by forensic investigators. For majors in chemistry, biology, anthropology as well as geology.

475A Field Geology I (4)

Prereq: 360. (fall) *D. Schneider, G. Nadon, D. Nance*. Introduction to field mapping techniques based on projects in the Appalachian region. This course, only in combination with GEOL 475B (Field Geology II), satisfies the field camp requirement.

475B Field Geology II: Death Valley (5)

Prereq: 475A. (winter intersession) *D. Schneider, G. Nadon, D. Nance*. Application of field and mapping techniques learned in GEOL 475A, based on projects in the Death Valley region. This course, only in combination with GEOL 475A (Field Geology I), satisfies the field camp requirement.

476 Subsurface Methods (4)

Prereq: 350, PHYS 202 or 253. (winter) *G. Nadon*. Résumé of drilling, sampling, and logging by electric, radioactivity, temperature, and neutron methods as applied to petroleum exploration, water, and engineering projects. 3 lec, 2 lab.

480 Principles of Hydrogeology (4)

Prereq: 101 or 202, or 283, MATH 163B or 263B, PHYS 202 or 253. (fall) *M. Stoertz*. Principles governing occurrence, movement, and recovery of water in soil and aquifers. Hydrologic cycle, water budget, hydrology of agriculture, watershed studies, water chemistry, and pollution. 3 lec, 2 lab.

481 Groundwater Flow Modeling (4)

Prereq: 480. (winter) *M. Stoertz*. Steady and unsteady flow to well, analysis of pumping test data, water well design, well development, interference of wells, and design of well fields. 3 lec, 2 lab.

482 Transport Processes in Groundwater (4)

Prereq: 481, MATH 340. (spring) *D. Lopez*. Basic principles and fundamental equations; D.E. of groundwater motion, solution of boundary value problems for different types of aquifers. Analytical and numerical methods in subsurface hydrology with emphasis on finite difference method; digital model. 4 lec.

485 Introduction to Applied Geophysics (4)

Prereq: PHYS 202 or 253. (fall) *D. Green*. Introductory course in environmental and geotechnical geophysics. Survey of applied geophysical methods including seismic, gravity, magnetic, electrical, and electromagnetic techniques. 3 lec, 2 lab.

486 Applied Seismology (4)

Prereq: 485. (spring) *D. Green*. Field methods and analysis techniques for seismic characterization of shallow subsurface, multichannel digital data acquisition, generalized reciprocal refraction and common offset refraction techniques as practiced in environmental and geotechnical industries. 4 lec.

488 Paleomagnetism (4)

Prereq: 101 or 202, 315. *J. Libarkin*. Fundamental principles of paleomagnetism and its applications. Topics include its physical and chemical basis and measurement as well as the origin of remanent magnetization.

489 Advanced Topics in Hydrogeology (1-4)

Prereq: 480, perm. *M. Stoertz, D. Lopez*. In-

depth study of an advanced or current topic in hydrogeology, exploring (but not limited to) such areas as karst hydrogeology, fracture-flow hydrogeology, mine hydrology, unsaturated flow, and inverse modeling. Consult instructor for topics.

490 Seminar in Geology (1-2)

Prereq: perm. Several seminars on specific topics in geological sciences will be offered yearly. It is recommended that all majors participate in at least one seminar.

491 Geologic Studies (1-6, max 12)

Prereq: perm. Staff. Individual or small group independent study arranged with faculty members.

492 Internship (1-15)

Prereq: perm. Provides qualified students with the opportunity to receive credit for work experience directly related to the geological sciences. Supervised by geological sciences faculty and evaluated by an on-the-job supervisor. A report detailing the internship activities is required before credit is awarded.

495 Senior Thesis (1-5)

Prereq: perm. Independent research project requiring departmental approval of thesis proposal before registering. Required for departmental honors program.

German

See Foreign Languages and Literatures.

Gerontology

Undergraduate Certificate

The Colleges of Health and Human Services and Arts and Sciences cosponsor a Gerontology Certificate Program for students who desire to supplement their undergraduate curriculum with a career in working with or for the elderly. Traditional aging-related content, and the global impact of aging are linked with program initiatives that enable students to appreciate how this growing population affects their own area of study. Health care, social services, recreation, mental health, education, administration, and business are examples of service areas that now employ large numbers of persons working with and for the aging population. This program is open to any undergraduate student in the University. See the College of Health and Human Services section.

Global Leadership Center (GLC)

100 The Global Experience (1)

Prereq: Fr or soph. To raise the awareness of a broad range of global issues from an interdisciplinary perspective. To use a problem-based format to address these issues. To foster contacts between American and international students in order to learn about other countries and cultures. To encourage teamwork and collaboration among students and faculty from different disciplines—both face to face and by using Intranet communication software.

201 Global Leadership Center Introductory Project (3)

Introduction to project-based learning. Team research and analysis of global issues, with an emphasis on business, communication, and international relations. Perform country, industry, and company analyses; recommend options and solutions; and present ideas orally and in writing. Sample projects: Should McDonalds continue to invest in Russia? Should Wal-Mart expand into Malaysia? Should Amazon.com stay in the French and/or German markets? What should Starbucks' strategy be in Southeast Asia?

202 Business and Communication in Transitional Societies (5)

Prereq: soph. (fall and two weeks of winter intersession) Two-stage project focusing on issues and challenges faced by companies, organizations, and nongovernmental organizations in transitional societies. In stage one, teams undertake a country analysis and develop a communications campaign to promote the country to a global media audience. In stage two, work continues in

bi-national teams on projects for companies or organizations. Two weeks of winter intersession are spent overseas (Hungary, Ecuador; Czech Republic; Thailand) conducting the project. Sample projects: How can Hungary tell its story through the global media? What story can Ecuador tell through the global media to promote its economic goals? How can Brno tell its story through the media? How can a Bangkok enterprise tell its story through the media?

203 Building Cross-National Alliances (4)

Prereq: 201, 202. (winter) Understanding barriers and opportunities in countries and regions at various stages of development, and the significance of cross-national alliances. Team research and analysis of global ventures in various fields, accounting for relevant legal, economic, political, and social factors. Sample projects: Investigate potential market entry for satellite cell phones in China, Australia, Italy, Japan, Brazil, and Kuwait. Building institutional partnerships for student exchange and study abroad programs in Argentina, Ghana, Morocco, and Turkey. World Music and Social Change.

204 Communication and Development (4)

Prereq: 201, 202. (winter) Research and analysis of how communication can be used to promote development in such areas as agriculture, education, public health, the environment, nation-building, and political and social democracy. Examines changing definitions of development and places emphasis on understanding the historical, social, economic, and political circumstances that impact development and communication strategies used to promote development. Sample projects: Research development needs in a specific country and write a grant proposal for a communication campaign to address these needs.

205 Global Leadership Conference (2)

Prereq: 203, 204. (spring) Teams plan a conference on global issues in business and communication. Selection of a conference theme and topics from proposals submitted by teams. Teams assigned specific planning tasks, such as panels and speakers, budget and funding, logistics, and publicity.

301 Global Economic Trends and Strategic Alliances (4)

Prereq: 205 or perm. (fall) Focuses on how strategic alliances are shaping and changing economic and political relations among the countries of the world, and the impact of such changes on society and culture. Research the development of bilateral trade relations, regional economic groups, and the growth and interdependency of global financial markets. Analysis of how such economic alliances are reflected in geopolitics and international diplomacy, and in cooperative global initiatives in such areas as natural resources, space exploration, education, and sports. Sample project: research global mergers, joint ventures, and alliances in the airline, automotive, and telecommunications industries.

302 Global Competition and Industry Trends (4)

Prereq: 301 or perm. (winter) Understanding international trade and global industry structures by comparing and contrasting joint ventures, mergers, and acquisitions. Comparison of markets and industries to determine the advantages and disadvantages of global and cross-industry expansion, and assessment of strategies for entry into new markets or new industries.

303 Starting a New Venture/Initiative (4)

Prereq: 302 or perm. (spring) Development and launch of a new venture or initiative for a national, regional, or global market or audience. Broadly defined to include commercial products and services, not-for-profit initiatives in education, or social and economic development. Identification of target market/audience; analysis of competition or environmental assessment; preparation of a business plan with detailed financial information, marketing strategy, and assessment of human resources and training needs.

400 International Internship (0-6)

International internship that allows students to apply the knowledge and skills obtained in two years of project-based learning on global issues. Taken after sophomore year, with faculty approval, during summer, or fall or winter quarters. Written report and oral presentation on internship experiences to sophomore and junior GLC students upon return.

Government

See Political Science.

Greek

See Foreign Languages and Literatures.

Hazardous Materials Technology (HMT)

The following courses for the A.A.S. in hazardous materials technology are available only on the Chillicothe campus:

110 Hazardous Materials Regulation I (4)
Addresses U.S. laws and regulations that pertain to environmental law and liabilities associated with handling hazardous materials. Topics include the basics of environmental law, liability and enforcement, Resource Conservation and Recovery Act (RCRA), transportation of hazardous materials, and the Clean Air Act. Current events will be discussed and analyzed.

120 Hazard Communication Standard (3)
Emphasis on hazard communication programs, their development and implementation, and their compliance with federal Hazard Communication Standard and "Right-to-Know" laws. Topics include Material Safety Data Sheets (MSDS), written programs, employee training, and labels and placarding.

130 Industrial Processes (3)
Generation of hazardous materials in such settings as electroplating, metal finishing, printed circuit board production, oil refining, chemical production, steel production, paper industry, and various other production areas. Emphasis on acute and chronic exposure. Hazardous materials handling and minimized waste generation will be covered.

140 Hazardous Materials Regulation II (4)
Prereq: 110. The Environmental Protection Agency (EPA) is the major focus. Included are the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Superfund Amendments and Reauthorization Act (SARA); the Clean Water Act; the Safe Drinking Water Act; the Oil Pollution Act; and the National Environmental Policy Act (NEPA). Regulatory compliance is a major topic, with some case studies.

150 Emergency Response I (3)
Emphasizes the development of emergency response contingency plan for a facility. Includes analyzing hazards, writing and implementing contingency plans, training employees for an emergency, and evaluation of the contingency plan. Emergency operations are also explored, with emphasis on field exercises incorporating drum handling, instrumentation surveying, decontamination procedures, personal protective equipment, and medical evaluations.

200 Hazardous Materials Recovery, Incineration, and Disposal (4)
Prereq: EVT 100. Directed toward the recovery, incineration, and disposal of hazardous waste. Topics include the contracting of qualified disposal organizations, obtaining permits, and ensuring compliance of hazardous waste. On- and off-site treatment technology as well as chemical and physical characteristics of hazardous materials and waste are discussed. Environmental contamination for air, water, and land is explored. Some air dispersion modeling is included.

210 Hazardous Materials Regulation III (4)
Prereq: 140. Final course in the regulation series; addresses the Toxic Substances Control Act (TSCA), asbestos regulations, pesticides, the Emergency Planning and Community Right-to-Know Act (EPCRA), and the OSH Act. Case studies, class participation, and reports are emphasized.

220 Hazardous Materials Health Effects (3)
Prereq: BIOL 101. Literature review of human health risks related to chemical exposures. A study of risk factors, types of chemical entry, effects on organs, acute and chronic effects, and measures to control exposure.

230 Emergency Response II (3)
Prereq: 150. Application of emergency response

procedures under simulated emergency conditions. Students respond to the emergency, assess the seriousness of the incident, supervise cleanup, and provide information to the public and media. Students successfully completing this course will be certified at the First Responder Awareness Level and Operations Level.

240 Hazardous Materials Testing (4)
Prereq: 200. Development of an effective field sampling program for hazardous materials. Includes proper sampling procedures, use of hazardous materials testing equipment, and chemical analysis of hazardous waste materials. Students will become proficient in the use of sampling equipment as well as portable and laboratory-based qualitative and quantitative analytical apparatus used in routine and emergency situations.

289 Special Topics (1-5)
Prereq: 100, HMT advisor perm. Special topics in hazardous materials. Areas include OSHA's 40-Hour Compliance Training, instrumentation, internships, co-ops, and special studies.

Health and Human Services (HS)

102 HCOP Six-Week Skill Enrichment (5)
Prereq: HCOP student. Six-week prematriculation program for entering minority freshmen majoring in selected health-related programs. Skill enrichment in math, biology, composition, computer word processing, and study techniques through lecture and lab experiences. Clinical visits and observations at various health care facilities provide students with exposure to allied health professions.

491 Special Topics in Gerontology (1-4; maximum credit from all enrollments is 8)
Prereq: jr. Examination of various contemporary trends and issues in the study of geriatrics. Draws upon current literature and research for in-depth consideration of special topics in gerontology.

Health Sciences

Environmental Health (EH)

260 Introduction to Environmental Health and Safety (4) (2A)
Survey of technical and administrative procedures needed to control the environment, especially as they relate to health effects encountered in daily activities. Emphasis on general ecological environmental protection and environmental degradation, along with safety concepts, practices, and procedures. 4 lec.

275 Environmental and Occupational Health and Safety Regulations (4)
Overview of the history, development, and current application of major regulations, amendments, and reauthorizations related to the environmental and occupational health and safety regulatory process. 4 lec.

310 Water Supply and Wastewater Environmental Health Practice (3)
Prereq: CHEM 123 or 153. Examination of processes for the development of water resources, quantity and quality requirements, preventive control measures and treatment, collection of wastewaters, and treatment for disposal or reuse. Health implications of water quality management stressed. 3 lec.

312 Solid and Hazardous Waste Management (4)
Prereq: 260. Problems in and solutions to the storage, collection, and disposal of hazardous and nonhazardous wastes with special emphasis on life cycle analysis and risk assessment. 4 lec.

320 Shelter Environments (4)
Prereq: 260. Physiological and psychological aspects of exterior and interior environmental concerns. Emphasis on housing standards, building codes, vector control, separate concerns of urban and rural housing, migrant labor housing, mobile home construction, and mobile home park design. 4 lec.

330 Food Quality Control (4)
Prereq: 260; BIOS 221, 222. Emphasizes the topics of foodborne diseases and regulatory programs relative to sanitary inspection and control of food service and processing systems. 3 lec, 2 lab

425 Environmental Health and Safety Risk Communication (4)
Prereq: 260. Hands on application of principles in communicating environmental health and safety risks to the public. Students will work with current environmental health and safety issues to develop and implement risk communication plans. 4 lec.

430 Vector Control and Pesticide Use (3)
Prereq: 260. Vectors responsible for rodent- and arthropod-borne diseases of medical and veterinary importance with special emphasis on human health and welfare implications. 3 lec.

435 Environmental Health Sciences Laboratory (2)
Prereq: 260, (310 or 430 or 440), IH 200. Hands-on activities and exercises in environmental health practices. Topics include food safety, air pollution, water quality, vectors and waste management. Designed for students who will pursue careers in environmental health and safety. 6 lab.

440 Air Quality and Pollution Control (3)
Prereq: CHEM 123 or 153. Evaluating and monitoring air quality; effects of pollution control and lab procedures in air quality investigation. Special emphasis on air pollution's effects on human health and welfare. 3 lec.

450 Institutional Environmental Health Practice (4)
Prereq: 260. Emphasis on the institutional aspects of shelter as they relate to disease prevention and control within hospitals, nursing homes, day care centers, schools, and correctional facilities. 4 lec.

455 Recreational Environmental Health Practice (4)
Prereq: 260. Broad view of all major aspects that should be considered in the planning, development, and operation of recreational environments as they relate to proper environmental health protection. 4 lec.

457 Occupational Safety and Health Administration (4)
Prereq: 260. Provides knowledge and understanding of processes involved in the development and implementation of environmental health and safety programs. Focus on design, implementation, maintenance, and evaluation of workplace safety programs, with emphasis on inspection programs, planning, administration, and communication. 4 lec.

464 Environmental Health Practicum (1-15)
Prereq: jr or sr, perm, major. Supervised learning experience in an approved clinical/environmental health facility designed to provide the student with practical comprehensive opportunities in environmental health to enhance and complement required classes.

490 Independent Study (1-5)
Prereq: major and perm.

491 Environmental Health/Industrial Hygiene Professional Topics Seminar (1-4)
Prereq: 260, jr or sr. Provides a forum for students interested in environmental health, safety, and industrial hygiene to express their views on current topics in the profession. Instructors will facilitate reviews of current research, emerging interest areas, graduate education, the job market, and among other topics. 1-4 lec.

Health Sciences (HLTH)

101 Introduction to Health and Human Services Professions (2)
Course examines various roles of health care professionals in health care delivery system, describes education and training program options, explores opportunities for employment, and introduces medical terminology. Students receive credit (CR), not a letter grade. 2 lec.

105 Preventing Sexual Violence (4)
(fall, spring) Provides both male and female students with information about sexual violence, its different forms, frequencies, and impact. Students gain an understanding of cultural influ-

ences, offender and survivor characteristics, and support services. Information and skills directed at reducing students' likelihood of being involved in sexually offensive/violent situations. 4 lec.

119 Bioterrorism, Disasters, and Health (4)
Exploration of bioterrorism, disasters, and the implication on individual and public health. Discussions on the global and domestic impacts of bioterrorism and disasters and the roles of public health agencies. 4 lec.

202 Introduction to Health and Lifestyle Choices (4) (2A)

Prereq: fresh or soph. Practices and appreciation of means whereby health of individual and group may be maintained. 4 lec.

203 Foundations in Health Education (4)
Examines both theory and practice, including terminology, theoretical models, health issues, health organizations, employment opportunities, historical contributions, ethics, and relationship to the remainder of the medical community. 4 lec.

204 Alcohol, Tobacco, and Other Drugs (4)
Presents basic pharmacology and toxicology of common drugs, alcohol, and tobacco and consequences of their abuse. 4 lec.

205 Preventing HIV and STIs (4)
Examines the signs and symptoms, methods of transmission, treatment, and prevention of HIV and sexually transmitted infections (STIs). Emphasis on education as a means to reduce the risks of becoming infected. 4 lec.

210 Health of Women (4)
The health needs and concerns of women within the physical, mental-emotional, and social dimensions of functioning are examined. Emphasis on women as health care and product consumers. 4 lec.

212 Controlling Stress and Tension (4)
Prereq: 202. Holistic approach to stress management covering recognition of tension, physiological response, relaxation techniques, and individual stress profile. 4 lec.

215 Violence in America (4)
Focuses on the etiology and prevention of violence as it occurs in the home, workplace, on American highways, and in the daily interactions with others. Emphasis placed on gender violence etiology, prevention, and reporting. 4 lec.

217 Introduction to Health Care Organizations (4)
Prereq: 202. Focuses on U.S. health system, describing health care institutions, providers, payment practices, and significant health legislation. Discusses trends and future perspectives against historical background. Assists manager to develop panoramic view of health care organizations. 4 lec.

225 Long-Term Care Administration I (4)
Prereq: MGT 200. (fall) Presents laws, regulations, and standards that impact long-term care facilities management. Discusses client rights and responsibilities and their implications in managing such facilities. Stresses ethical and moral issues confronting manager. Reviews risk management and strategies for providing safe and comfortable environment. 4 lec.

230 Medical Terminology (2)
Prereq: BIOS 103 or BIOS 170. Medical terms associated with body systems, disease processes, laboratory tests, and clinical procedures commonly found in the health care setting. Emphasis on the development of appropriate administrative policies and procedures based on selective disease processes. 2 lec.

270 Family and Consumer Health (4)
Covers consumer health issues, health quackery, purchasing health products and services, alternative health care, and marketing strategies. Regional practices within the U.S. will be discussed. 4 lec.

290 Health Aspects of Aging (4)
Theories of aging involving changes in structure and performance. Emphasis on normal aging changes, mental changes, mental health, health promotion, and community health. 4 lec.

300 Worksite Health (2)
Prereq: jr. Examination of worksite health programs. Guidelines for development of health promotion programs in corporate settings discussed. 2 lec.

316 Human Resource Management and Training in Health Care (4)

Introduces students to the management and development of personnel within various health care settings. Examines and analyzes various human resource issues within the unique health care arena. 4 lec.

320 Strategies for Communicating Health Information (4)

Prereq: 202, jr. Instruction, principles, and curricula used in presenting health information at the preschool, elementary, middle, and secondary school levels. 4 lec.

325 Long-Term Care Administration II (4)
Prereq: 225. (winter) Presents managerial ideologies important to manager of long-term care facilities. Fully develops role of administrator in planning, organizing, directing, controlling, and staffing for specific services of long-term care facilities within holistic framework for client care. Studies professional relationships and coordinating function of manager. Includes contributions of rehabilitation and recreation services to long-term care. 4 lec.

330 Community Health Epidemiology (4)
Prereq: 202, jr. Use of epidemiology by community health providers to prevent health disorders and to plan for meeting the health needs of populations. Special focus on the use and interpretation of morbidity and mortality data in studying acute and chronic disorders. 4 lec.

335 Administration of Acute Care Facilities (4)

Prereq: jr. (winter, spring) Focuses on the understanding, skill, and ethical issues important to the management, organization, planning, financing, and evaluation of an acute health care facility and its services to patients. Emphasis on the administrator's role in an acute health care facility. 4 lec.

340 Contemporary Problems in Health Care Organizations (4)

Prereq: jr. (fall, winter) Identifies the major issues in the development and management of a wide range of health care programs and organizations. Provides exercises in the application of management skills necessary to confront the major changes and problems identified. 4 lec.

345 School Health (4)

Prereq: jr. Principles, problems, organization, and administration of school health programs, including health services, healthful school environment, health instruction, and school and community relationships. 4 lec.

350 Independent Study (1-5)

Prereq: jr, perm. Study and/or research in selected topics of interest to students in health sciences.

364 Community Health Field Experience (1-5)

Prereq: 202, jr. Observation and participation in activities of community health agency or medical facility or program.

370J Writing for Health Sciences (4) (1J)

Prereq: jr or sr. Designed to improve the technical writing skills of students in health or health-related fields. Writing tasks are designed to provide students with experience in writing within formats and subject areas of their field of study. 4 lec.

390 Community Health (4)

Prereq: 202, 204, jr. Institutional frameworks for promoting and maintaining health of people of community, state, and nation. 4 lec.

405 Long-Term Care Administration III (4)

Prereq: 325. (spring) Deals with administrative processes in long-term care management. Orients student to modern information systems and use of data in managing decision action and record keeping. Presents content on building effective public relations, managing volunteer programs, and in supporting client governance. Prepares student to sit for licensure exams. 4 lec.

406 Alternatives to Traditional Long-Term Care (4)

Prereq: 217; 325 or 335. Exposes the student to information related to alternative forms of delivery for long-term care. Major thrust directed to assisted living operations and regulations. 4 lec.

410 Health Issues: U.S. Underserved Populations (4)

Prereq: jr, 202, 204, 390. In-depth analysis of critical health issues germane to underserved populations in the United States. Emphasis on those groups suffering the most profound consequences of health problems and disease. 4 lec.

412 International Health Programming (4)

Prereq: jr. Addresses diverse, rapidly changing health problems in underdeveloped and industrialized countries while exploring roles of health professionals. Surveys program interventions and solutions that are available or under development. 4 lec.

418A Instructional Experiences (1-3)

Supervised practice in organizing and teaching activities in college

419 Health Education for the Elementary School (4)

Prereq: 202. Application of principles of curriculum development, identification of appropriate concepts and practices, and use of teaching methods and resources at elementary school level. 4 lec.

421 Financial Administration of Health Care Facilities (4)

Prereq: ACCT 101 or 201, sr. Emphasis on the interpretation and application of accounting and financial concepts of health services with an introduction to strategic financial planning. 4 lec.

422 Reimbursement Payment Systems in Health Care Organizations (4)

Prereq: 421, sr. Analysis of reimbursement systems for acute care, long-term care, home care, and alternative care systems. Both current and projected systems will be examined. 4 lec.

464 Community Health Services Practicum (15)

Prereq: 364, sr, perm. Participation in activities of official or voluntary public health agency. Supervision of experience to be done by agency personnel and University faculty

470 Advanced Community Health (4)

Prereq: 300, 345, 390. Combines lecture with practical experiences with student using previously learned content to develop relevant community health programs. Knowledge of assessment, planning, implementation, and evaluation are required. 4 lec.

480 Practicum in Health Services Administration (10)

Prereq: perm. Provides a practical field experience in the operational skills necessary to manage a health care organization. The student works under the direct supervision of health care managers and carries out assigned tasks, which may include the direct provision of care, development of programs, maintenance of systems, and management of data.

480B Practicum in Long-Term Health Care Administration (15)

Prereq: perm. Provides a practical field experience in the operational skills necessary to manage a long-term health care organization. Students work under the direct supervision of long-term health care managers and carry out assigned tasks, which may include the direct provision of care, development programs, maintenance of systems, and management of data.

481 Internship in Health Administration (15)

Prereq: perm, completion of coursework. Provides an administrative/programmatic experience where students complete supervised projects, plans, and other administrative tasks under the joint supervision of a health care facility administrator and a University faculty member.

482 Internship in Long-Term Health Care Administration (15)

Prereq: perm, completion of coursework. Provides an administrative/programmatic experience where students complete supervised projects, plans, and other administrative tasks under the joint supervision of a long-term health care facility administrator and a University faculty member.

489 Community Health Planning and Administration (4)

Prereq: sr. Effective planning and management techniques germane to community health service settings in regard to approaching and addressing health problems. Emphasis placed on assessing health needs, relating those needs to particular population groups, analysis of the economics involved, program recommendations, as well as program implementation. 4 lec.

490 Independent Study (1-5)

Prereq: jr or sr, perm. Allows for special study of topics of interest to students of health care programming and administration.

491A-F Special Topics Workshops (1-3)

Prereq: perm. (A) focuses on administrative practices and issues; (B) focuses on environmental and occupational health and safety; (C) focuses on legal aspects; (D) focuses on client-centered care programs; (E) focuses on team-building and interpersonal relationship skills; and (F) focuses on intercommunity relationships and consortia arrangements.

Industrial Hygiene (IH)**200 Introduction to Industrial Hygiene and Occupational Safety and Health (4)**

Introduction to occupational safety and health and industrial hygiene including historical developments, health and safety program concepts, social and legislative requirements, professional relationships, and general introduction to concepts of anticipation, recognition, evaluation, and control of exposures. 4 lec.

400 Industrial Hygiene Sampling and Analysis (5)

Prereq: 200. Lectures and lab to introduce field sampling and lab instrumentation and analytical methods common to industrial hygiene. Students required to interpret readings, analyze samples, and prepare appropriate reports. 3 lec, 3 lab.

401 Toxicological Effects of Hazardous Materials (4)

Prereq: 200. Basic toxicology of hazardous dusts, fumes, vapors, gases, and liquids found in the workplace. Techniques necessary to recognize, evaluate, and control exposure to organic solvents, metals, asbestos, lead, radon, and other substances will be introduced. 4 lec.

405 Ventilation for Contaminant Control (4)

Prereq: 200. Designed to impart a working knowledge of the principles, methods, and practices of controlling worker exposure to hazardous concentrations of air contaminants and to present logical methods of design, evaluation, and maintenance of such systems. 4 lec.

406 Ventilation Laboratory (2)

Prereq: 405 or concurrent. Topics included will provide students with the minimal necessary skills expected of industrial hygiene and safety practitioners working in the areas of local exhaust ventilation, dilution ventilation, and indoor air quality. Evaluation of local exhausts, HVAC systems, hood entry losses, duct losses, air cleaner effects, velocity traverses, flow calculations, and troubleshooting are covered. 4 lab.

410 Physical Hazards: Evaluation and Control (4)

Prereq: 200. Designed to provide a functional knowledge of methods used to evaluate and control noise, vibration, heat, light, and other factors affecting the health and well-being of the worker. 4 lec.

415 Introduction to Radiological Health: Evaluation and Control (4)

Prereq: 200. Introduction and overview of health effects of various sources of radiation including sources, evaluation, safety, and control factors. 4 lec.

420 Hazardous Material: Management and Control (4)

Prereq: 200. Lectures on gases, vapors, dusts, liquids, and solids and their physical and chemical properties. Emphasis is upon evaluation and control methods. Student is required to develop controls for specific cases and present them in technical reports. 4 lec.

Hearing, Speech and Language Sciences (HSLs)**107 Voice and Articulation (2)**

Designed to help student recognize, evaluate, and compensate for or improve speech production characteristics. 2 lec.

108 Introduction to Communication Disorders (5) (2A)

Introduction to the field of human communication disorders, including disorders of hearing, speech, and language. 5 lec.

207 English Pronunciation—International Students (2)

Prereq: successful completion of OPIE or comparable proficiency in English. (arranged) Group and individual instruction and pronunciation of sounds, rhythm, and stress patterns of English for international students and non-native speakers of English. 1 lec, 2 lab.

208 Phonetics (5)

Speech sounds from sociological and physiological points of view. Mastery of International Phonetic Alphabet and English phonetic transcription. 4 lec, 2 lab.

213 Anatomy and Neurology of Communication (4)

Prereq: soph, jr, or sr. Structures, musculature, and functions involved in respiration, phonation, resonance, and articulation for speech. 4 lec.

240 Professional Orientation (3)

Prereq: HSLs major, soph. Introduction to clinical practice issues in communication disorders. Includes video observation of diagnostic and treatment sessions with individuals who have a wide variety of communication disorders. 2 lec, 2 lab.

251 Speech and Language Science (4)

Study of fundamental topics in speech and language sciences including speech production, speech acoustics, speech perception in a linguistic framework, neurolinguistics, lexical access, and speech and language technology. 4 lec.

253 Hearing Science (4)

Prereq: 213, 251. Physiological and psychological aspects of sound and measurement of human hearing, including sound transmission and analysis, electrophysiology of the ear, psycho-acoustics. 4 lec.

297T Sophomore Tutorial I (1-15)**298T Sophomore Tutorial II (1-15)****299T Sophomore Tutorial III (1-15)****300 Aging and Disorders of Communication (4)**

Basic information concerning nature of minor and major communication disorders, communication aids, and alternative approaches to rehabilitation. 4 lec.

310 Language Development (4)

Prereq: 108; HCCF 160 or PSY 273. Foundation in language acquisition in young children. Includes development of semantics, syntax, phonology, morphology, pragmatics, and theories regarding development. 4 lec.

336 Speech and Hearing Disorders in the Public Schools (3-4)

Prereq: not open to HSLs majors. (arranged) Nature, causes, and treatment of speech-language problems in public school children with special reference to role of classroom teacher. Not currently offered.

341 Pre-Professional Service I (2)

Prereq: 240, jr, pass speech proficiency test in HSLs 240. Intermediate exploration of clinical practice issues in communication disorders. Includes service experience in a professional context. 1 lec, 2 lab.

378 Sign Language (4)

Prereq: not open to HSLs majors. Instruction in manual sign language system used by deaf. Emphasis on vocabulary, encoding, and decoding signs to communicate effectively. Not currently offered. 4 lec.

379 Basic Manual Communication (4)

Prereq: major. Basic instruction and practice in fingerspelling and signing used by deaf and hard of hearing. Not currently offered. 4 lec.

380 Basic Audiology (5)

Prereq: 251, 253. Provides a basic understanding of the standard clinical procedures used to assess the auditory system, including puretone audiometry, speech tests, tympanometry, and acoustic reflex testing. Emphasis on interpretation of audiometric test results. Anatomy and physiology of the auditory system reviewed as related to disorders of the ear. Exposure to instrumentation, test materials, and practical testing experience provided in weekly laboratory sessions. 4 lec, 2 lab.

385 Sign Language I (4)

Prereq: Open only to non-HSLs majors (no credit if credit already for HSLs 385A). Basic introduction to sign language, including finger spelling, number concepts, and encoding and decoding of sign. 4 lec.

385A Sign Language I (4)

Prereq: Open only to HSLs majors (no credit if credit already for HSLs 385 or 379). Basic introduction to sign language, including finger spelling, number concepts, and encoding and decoding of sign. 4 lec.

386 Sign Language II (4)

Prereq: 385 or 385A. Intermediate instruction and practice in manual communication with emphasis on interactive signing. Includes introduction to American Sign Language (ASL). 4 lec.

387 Sign Language III (4)

Prereq: 386. Advanced instruction in American Sign Language (ASL). Addresses culture of deaf populations and principles of interpreting with an emphasis on practical applications. 4 lec.

390 Research in Hearing, Speech and Language Sciences (4)

Prereq: PSY 221, jr. or sr. Introduction to research in the fields of speech-language pathology and audiology. Topics include the scientific method, generating relevant research questions, types of data and research designs, and formulating and communicating conclusions and interpretations. 4 lec.

397T Junior Tutorial I (1-15)**398T Junior Tutorial II (1-15)****399T Junior Tutorial III (1-15)****410 Language Science (4)**

Prereq: 310 or LING 350 or 351. Theoretical approaches to language acquisition, neural correlates of language learning, noninvasive imaging techniques, relation of memory and cognition to language, and models of language processing. Not currently offered. 4 lec.

413 Communication Acoustics (3)

Prereq: Non-HSLs major. Provides telecommunications majors and other interested students with background information in acoustics as related to human speech production and perception. Not currently offered. 2 lec, 2 lab.

418 Disorders of Articulation and Phonology (4)

Prereq: 208, 213. Phonetic acquisition, articulation evaluation. Emphasis on practical approaches to therapy for individuals with articulation and phonological disorders. 4 lec.

419 Organic and Structural Communication and Related Disorders (4)

Prereq: 213. Provides a background on the nature and management of communication disorders caused by injury or malfunction of speech and language mechanism and nervous system. Illustration of case management presented for selected representative cases. 4 lec.

420 Multicultural Aspects in Communication Sciences (4)

Prereq: 108, 208. Multicultural topics related to the fields of speech-language pathology and audiology including speech and language acquisition in diverse cultures, social and geographical dialects, introductory concepts of bilingualism, hearing disorders, and aural rehabilitation. Not currently offered. 4 lec.

422 Diagnostics (3)

Prereq: 310, sr. Types of diagnosis in evaluation of speech and language problems. Screening tests, use of statistics in testing, basic interview and history procedures. Not currently offered. 3 lec.

433 Professional Training Seminar (3-4)

(arranged) Seminar in concepts underlying therapy procedures.

441 Pre-Professional Service II (4)

Prereq: 341, sr., no credit if 442. Designed to expand cultural awareness, foster integration of knowledge from previous coursework with applied practice principles, and ensure reflection on career opportunities. Capstone project completed. Approved Tier III equivalent. 4 lec.

442A Audiology Practicum (2)

Prereq: admission to pregraduate program. (winter, spring) Experience in audiological diagnosis and evaluation in campus clinical facility and off-campus test sites. Not currently offered. 1 lec, 2 lab.

442C Advanced Speech/Language Practicum (2)

Prereq: 442, admission to pregraduate program. (winter, spring) Application of diagnosis, therapy planning, and therapy techniques. Not currently offered. 1 lec, 2 lab.

444 Language Disorders in Children (4)

Prereq: 310. Introduction to disorders of language that may be observed in children with mental retardation, hearing impairment, autism, learning disabilities, specific language impairments, and other disabilities. 4 lec.

471 Aural Rehabilitation (4)

Prereq: 380. Differential diagnosis of children with suspected auditory disorders. Basic remedial procedures employed with hearing handicapped. Practice in planning lessons in speech reading and auditory training. 4 lec.

480 Advanced Manual Communication (4)

Prereq: 378 or 385 or 379. Advanced instruction and practice in manual communication for students who anticipate study in clinical audiology or education of the deaf and special education. Not currently offered.

498 Special Problems (1-15)

Prereq: written proposal and perm.

498T Senior Tutorial I (1-15)**499 Independent Reading in Speech Pathology, Audiology, and Speech Sciences (1-15)****499T Senior Tutorial II (1-15)****History (HIST)****101 Western Civilization in Modern Times (4) (2S)**

Prereq: fr or soph only. Renaissance to 1648. Renaissance, Reformation, origins of national state system, diplomacy, and imperialism as applied to Portugal, Spain, and Hapsburg Empire, and commercial and scientific revolutions.

102 Western Civilization in Modern Times (4) (2S)

Prereq: fr or soph only. Continuation of 101. Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy, and imperialism as applied to France and Britain; westernization of eastern Europe, Enlightenment, French Revolution, agricultural, commercial, and industrial revolutions and growth of ideologies—liberalism, socialism, and nationalism.

103 Western Civilization in Modern Times (4) (2S)

Prereq: fr or soph only. Continuation of 101-102. Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism, and nationalism; rise and fall of German bid for power in two world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of Western empires in Africa and Asia.

121 Western Heritage: Classical Age (4) (2H)

Account of origins of Western heritage from ancient Near East to end of Classical Age. Included are such topics as ancient religions, philosophies, literature, and visual arts with particular emphasis on Greece and Rome.

122 Western Heritage: Medieval Legacy (4) (2H)

Discussion of period from decline of Roman Empire to the Renaissance focusing on development of Judaeo-Christian traditions, concept of civilization, and emergent individualism. Important subtopics include growth of universities, chivalry, scholasticism, and humanism.

123 Western Heritage: Modernity (4) (2H)

Major intellectual currents and cultural results from time of Renaissance to present examined in humanistic perspective. Included are such topics as origins of modern philosophy, languages, revolutions, political ideologies, and cultural pluralism.

132 Introduction to Non-Western History Before 1750: Cross-Cultural Perspectives (4) (2C)

Introduces cross-cultural perspectives in non-Western history. Focus is on the major themes in

human development, such as the history of the rise of civilization, world religions, and trading systems.

133 Introduction to Non-Western History Since 1750: Cross-Cultural Perspectives (4) (2C)

Introduces cross-cultural perspectives in non-Western history. Focus is on the major themes in human development, such as the rise of nationalism, modernization, and Westernization, in order to understand the nature of global and cultural interaction in the modern era.

200 Survey of United States History, 1600-1865 (4) (2S)

A survey of American history from colonial origins through the Civil War. The major political, social, cultural, and economic developments will be discussed.

201 Survey of United States History, 1865-present (4) (2S)

A survey of American history from the Reconstruction to the present. The major political, social, cultural, and economic developments will be discussed.

246 The Rise of Modern Asia (4)

Introductory survey of the history of a vast region that has experienced considerable changes during the past 150 years. Ten units will compare the national experiences of China, Japan, Indonesia, Vietnam, South Korea, Taiwan, Singapore, and the Philippines through stages of transition from colonialism to independence movements, from agrarian to industrial economies, and from authoritarian dynastic states toward democratic nation-states.

265A Nazi Germany (4)

Rise of Hitler to 1933; Hitler takeover, totalitarianization of Germany; Nazi foreign policy; WWII: Hitler's war on Jews; Hitler's fall; meaning of fascism.

297T Honors Tutorial Seminar (4)

Prereq: HTC. (fall)

298T Honors Tutorial Study, U.S. History (4)

Prereq: HTC. (winter) Independent study, U.S. history.

299T Honors Tutorial Study, U.S. History (4)

Prereq: HTC. (spring) Independent study, U.S. history.

300A Colonial America to 1689 (4)

Prereq: soph. English background, establishment of settlements, first economies, evolution of political and religious structures, relations with England, internal conflicts, Glorious Revolution.

300B Colonial America, 1689-1763 (4)

Prereq: soph. Governmental changes, credit and currency, Great Awakening, cultural developments, old colonial system, Anglo-French rivalry, nature of colonial society, problems of maturing political units.

300C Revolutionary Era, 1763-1789 (4)

Causes of American Revolution and struggle for independence. Confederation, movement for new government, framing of Constitution.

300D Early American Republic (4)

Beginning with the ratification of the Constitution and concluding with the end of the War of 1812, this course will explore the ways in which the people of the new nation struggled to construct their political, social, and cultural institutions.

301J Historical Research and Writing (4) (1J)

Prereq: jr, major or perm. Deals with techniques and mechanics of historical research and writing. After introduction to use of primary and secondary sources and use of history reference material, students are guided through steps of research and writing; compiling bibliography; analysis of sources; organization of evidence, and style and composition of written paper.

302 American Indians (4)

Prereq: soph. Treats Indian society before white contact; Spanish, French, and English impact; Indian removal; Indian wars; problems of cultural contact; preservation versus assimilation; Indian society today.

303 United States in World War II (4)

Prereq: soph. Military and diplomatic role of U.S. in WWII; political, economic, and social impact of war on that nation.

305 The United States and the Vietnam War (4)

Prereq: soph. Examination of American experience in Vietnam, both in terms of military and diplomatic history of war itself, and its impact on American society.

306 American Environmental History (4)

Prereq: A survey of the evolution—from 1565 to the present—of American attitudes toward and interactions with the natural world, including such topics as romanticism, the "code of the sportsman," conservation, the "land ethic," and "deep ecology."

307 Famous Trials in American History (4)

This course uses the medium of famous trials to explore the relationship between law and society in American history from the 17th to the 20th centuries. Some of the cases to be studied are landmarks in the history of law, while others provide social and cultural insights into a particular period of American history. Along the way, the class will consider the role of governmental entities, the legal profession, the judiciary, the press, and the public in famous trials.

308A Pre-Civil War America, 1815-1850 (4)

Prereq: soph. New definitions of democracy, westward expansion, early industrialization and class formation, moral reform movements, slavery and sectionalism, Mexican War, conflict of Jacksonian Democrats and Whigs.

308B The Civil War and Reconstruction (4)

Prereq: soph. Forces making for increased sectionalism in 1850s; rise of new parties; military engagements; society and institutions in North and Confederacy during wartime; attempts to restructure Southern society after war and why they failed.

308C Foundations of Modern America: The Gilded Age, 1877-1901 (4)

Prereq: soph. Labor unrest, nativism and anti-semitism, imperialism, government corruption, Social Darwinism, urban growth, Victorian morality, and Indian wars examined as outgrowths of efforts of American people to adapt to modernization and industrialization in late 19th century.

309A American Constitutional History, Part 1: Origins to Reconstruction (4)

Prereq: soph. Traces the history of American constitutionalism from its English roots through the aftermath of the Civil War. While the purview of the course is not restricted to the federal constitution, that document will form its chief focus. Ideas, institutions, and individuals responsible for the construction of America's unique constitutional heritage will be studied in considerable detail.

309B American Constitutional History, Part 2: Gilded Age to Present (4)

Prereq: soph. Studies the history of American Constitutionalism from the last half of the 19th century to the last half of the 20th. Course will concentrate on the Federal Constitution and its role in shaping the public and private lives of Americans. Particular attention will be paid to the ideas, institutions, and individuals responsible for making the Constitution a battleground rife with intellectual, social, and cultural significance.

309C Famous Trials in British History (4)

Prereq: soph. Uses the medium of famous trials to explore the relationship between law and society in British history. Some of the cases to be studied are landmarks in the history of law, while others provide insight into the social, cultural, and political characteristics of a particular period in British history.

310A 20th-Century America, 1900-1928 (4)

Prereq: soph. *P. Milazzo*. Emphasis on political and cultural history. Major topics include early 20th-century progressivism as an intellectual movement and its manifestations in state and local politics; presidencies of Theodore Roosevelt and Woodrow Wilson; impact of World War I; ambivalent character of the 1920s in American culture and politics; origins and effects of the affluent society.

310B 20th-Century America, 1928-1945 (4)

Prereq: soph. *P. Milazzo*. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Great Depression; Franklin D. Roosevelt and the emergence of the modern presidency; political and intellectual character of the New Deal; origins and impact of American involvement in World War II; wartime military history, diplomacy, and politics.

310C 20th-Century America, 1945–Present (4)

Prereq: soph. *P. Milazzo*. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Cold War; impact of foreign involvements on American politics; political leadership in the media age; radicalism and social change in the '60s and '70s; the rise of cultural politics and its effect on economic-based political coalitions; resurgence of conservatism in the '70s and '80s.

312A United States in Urban History (4)

Prereq: soph. or jr or sr. Examines the influence of cities, suburbs, and exurbs on American economics, politics, and society.

313 Jews in American History (4)

Prereq: soph. *M. Fletcher*. Examines political, economic, and religious interaction between Jews and American society. Includes Sephardic and Ashkenazic immigrants, growth of Reform and Conservative Judaism, Zionism, and modern problems of American Jews. From 1654 to present.

314A American Social and Cultural History to 1820 (4)

Prereq: soph. How people lived and understood their world from the first European contacts through the Federalist era. Differences among the colonies and interactions with Native Americans; the establishment of slavery as a social system in the South; and family life, gender roles, and class formation in the early market economy. Significant attention to material culture, art, and architecture.

314B American Social and Cultural History, 1820–1890 (4)

Prereq: soph. Social and work life; gender and family roles in Victorian America. The urban environment and the creation of new suburbs. Southern life in the slave economy and under Jim Crow. Urban working class life and entertainment, middle class gentility, and Gilded Age displays of wealth.

314C American Social and Cultural History Since 1890 (4)

Prereq: soph. Twentieth century urban and suburban life in the 1920s, Depression, and Cold War. Literature and art of the Harlem Renaissance and civil rights era. Cold War era suburbs, alienation, and inner city. 1960s artistic and cultural rebellions. Modern commercialized entertainment. Evangelical Christianity and conservative culture since the 1980s.

314D American Social Thought to 1815 (4)

Prereq: soph. *K. Mattson*. Major aspects of intellectual history of American colonies and U.S. to 1815, organized around two major themes: Puritanism, and secularization of American thought in 18th century.

314E American Social Thought, 1815–1915 (4)

Prereq: soph. *K. Mattson*. Major aspects of intellectual history of U.S. 1815–1915, stressing rise of romantic nationalism; triumph of democratic attitude; slavery controversy; impact of Civil War and Darwinian evolution.

314F American Social Thought Since 1915 (4)

Prereq: soph. *K. Mattson*. Major aspects of intellectual history of U.S. since 1915, with principal attention to continuing impact of evolutionary naturalism, especially in development of pragmatism; trends in liberal and conservative political ideologies; rise of pessimistic theology and its ramifications; modernism in arts; New Radicalism and Counter Culture.

314G Cultural Rebels in the Modern U.S. (4)

Prereq: soph or jr or sr. This course examines the history of cultural rebellion (or radicalism) in the 20th century. It surveys rebellion from Greenwich Village at the turn of the century to the punk rock explosion of the 1970s and 80s. It examines larger questions like: How do people rebel in a culture that often seems to embrace rebellion? How do cultural rebels communicate their anger to the wider society?

315A History of African Americans to 1865 (4) (2S)

Prereq: soph. Beginning with introduction of slavery in 1619, course deals with black person's role in America through Civil War. Concerns slavery, abolition, and many attempts by black people to improve their position.

315C African Americans in American History, 1865–1939 (4)

Prereq: junior. *M. Fletcher*. Concerns Emancipation and its continuing effects on African Americans; life in the post-Civil War South; new Black leaders such as Washington, DuBois, and Garvey; and the migration to the North.

315D African Americans in American History, 1940–Present (4)

Prereq: junior. *M. Fletcher*. Concerns World War II and its continuing effects on African Americans, migration to the North, the Civil Rights movement, and the problems of equality.

316A History of United States Foreign Relations to 1914 (4)

Prereq: soph. *C. Pach*. U.S. foreign relations from war for independence to WWI, stressing development of traditional policies— isolationism, neutrality, Monroe Doctrine—and emergence of U.S. as world power.

316B History of United States Foreign Relations, 1914–1945 (4)

Prereq: soph. *C. Pach*. American foreign relations in two world wars and interwar period, emphasizing shifting perceptions of vital interests involved in transition from intervention to nonentanglement to intervention again and emergence as superpower.

316C History of United States Foreign Relations, 1945 to Present (4)

Prereq: soph., *C. Pach*. American foreign relations in Cold War and after, emphasizing confrontation between U.S. and Communist world, emergence of detente, and background of current foreign policy issues.

317A Ohio History to 1851 (4)

Prereq: soph. Ohio to 1851: prehistoric Ohio, early exploration, settlement, government; statehood and economic development; political parties, antislavery movement, constitutional change.

317B Ohio History Since 1851 (4)

Prereq: soph. Ohio since 1851: pre-Civil War politics, Civil War. Economic and political transition during post-Civil War. 20th-century problems. Biographical sketches.

318 American Westward Movement (4)

Prereq: soph. American West; Appalachian West, Ohio frontier, Far West. Explorers, fur traders and trappers, miners, cattlemen, stage lines and railroads, farmers. Conservation.

319B American Baseball to 1930 (4)

Prereq: soph; no credit if 319A. American baseball—as sport, entertainment, business, and cultural institution—from origins in children's games and spread as adult activity in mid-19th century to emergence as full-blown professional sport after Civil War, formation of present league structures, Black Sox scandal of 1919–20, reconstitution of baseball's governance, and Babe Ruth-dominated "golden age" of 1920s. Includes player-owner conflicts, foremost players, managers, and teams; separate development of black baseball.

319C American Baseball Since 1930 (4)

Prereq: soph; no credit if 319A. American baseball—as sport, entertainment, business, and cultural institution—from Great Depression of 1930 through World War II; postwar boom, slump, and franchise migrations; major league expansion in 1960s; player-owner conflicts; and good and bad times in 1980s and 90s. Includes continuing evolution of game; foremost players, managers, and teams; Negro leagues and their demise; and All-American Girls Professional Baseball League (1943–54).

320A Women in American History Before 1877 (4)

Prereq: soph., *K. Jellison*. American women's history from the colonial era through Reconstruction. Topics include the traditional life of Native American women, witchcraft in colonial New England, women in the American Revolution, African American women in slavery, early American childbirth customs, the early women's rights crusade, women on the trans-Mississippi frontier, and women in the Civil War.

320B Women in American History Since 1877 (4)

Prereq: soph. *K. Jellison*. American women's history since Reconstruction. Topics include the experiences of immigrant women in the U.S., prostitution in

the Gilded Age, the Progressive Era birth-control movement, achievement of the right to vote, women in the two world wars, women in the civil rights movement, the new feminist movement, the backlash against feminism, Roe v. Wade and the abortion debate.

320C Women's Health and Medicine in America (4)

Prereq: soph. This course examines, from the colonial era to the present, changes in the medical treatment of women and changes in the perception of what constitutes women's health and illness. The class will explore how the complex interplay of scientific inquiry, social mores, cultural fears and expectations, and the relationship between physicians and women have contributed to changing definitions of women's health and medicine.

321A History of the Military in America: 1600 to 1898 (4)

Prereq: soph. *M. Fletcher*. Military institutions in American history; role of technology in warfare; innovations and reforms in military; war and its conduct; military and civilian society in war and peace.

321B History of the Military in America: 1898 to Present (4)

Prereq: soph. *M. Fletcher*. Continuation of 321A. See 321A for description.

321C Military History of the Civil War (4)

Prereq: soph. The military aspects of the US Civil War, who won and lost and why. Also the roles of individual men and women, white and black. Battles and leaders.

322 1960s in U.S.: Decade of Controversy (4)

Prereq: jr. Allows students to go beyond the popular stereotypes of the 1960s to understand the decade as a period of social, cultural and political confrontation that laid the groundwork for life in the present-day United States. Primary focus on social protest movements of the era: the Civil Rights movement, the student movement, the antiwar movement, the counterculture, and the women's movement.

323A Latin American History: The Colonial Era (4) (2C)

Prereq: soph. Examines historical origins of Latin American society. Themes include internal nature of Iberian and pre-Columbian Indian societies, circa 1492; conquest and subordination of Amerindian civilizations by Spain and Portugal; distribution of power, land, and labor in post-conquest Latin America; order and instability in colonial society; and region's position in international economy.

323B Latin American History: The 19th Century (4) (2C)

Prereq: soph. Examines 19th-century origins of modern Latin American underdevelopment, focusing on causes and consequences of Revolutions of Independence; dynamics of dictatorship and democracy in post-independence Latin American political culture; and decision-making process by which Latin America's 19th-century leaders integrated their national economies into international economic system as specialized exporters of raw materials.

323C Latin American History: The 20th Century (4) (2C)

Prereq: soph. Survey of modern Latin American history focusing on causes and consequences of structural instability in Latin America since 1900. Special emphasis is placed on collapse of region's traditional liberal/export model of national development in 1930s; competing political/ideological responses to structural crisis in region (social revolution, authoritarianism, democratic change); and ongoing search for viable formulas of economic development.

323D History of Brazil (4)

Prereq: soph or jr or sr. This course will explore the history of Brazil from the colonial period until the present. Combining classic and recent scholarship, and well-known literary works, it will focus on major historiographical debates that have shaped perceptions of Brazilian history, society, and culture.

325 History of U.S.–Latin American Relations (4)

Prereq: soph. Survey of inter-American relations in the 19th and 20th centuries, focusing on evolu-

ing, and often conflicting, definitions of national interest which have shaped U.S. and Latin American policy orientations toward one another

327 Slavery in the Americas (4)

Prereq: soph or jr or sr. Through the examination of the lives and experiences of slaves of African origin and descent as revealed by themselves in slave accounts and other documents this course will explore, in a comparative perspective, African and Afro-American agency and identity in various New World societies.

328A Jewish History to 1500 (4)

Prereq: soph or jr or sr. Jewish history during the ancient and medieval periods in Europe and Near East. Introduction to the basic beliefs and practices of pre-modern Judaism within a historical context, issues of imperialism, resistance, and persecution of minorities; cultural achievements.

329A Ancient Egypt and Mesopotamia (4)

Prereq: soph. Prehistoric eras, origins of Mediterranean civilizations, problems of ancient chronology; civilizations of Sumerians, Babylonians, Egyptians, Assyrians, Biblical Hebrews, and Persians. Stresses archaeological and literary sources, comparative social and religious concepts, acculturation, contributions to Western civilization.

329B Ancient Greece (4)

Prereq: soph. Aegean prehistory, Minoan civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of polis, Athenian society and culture. Persian and Peloponnesian Wars, political history of Greece to Alexander. Stresses archaeological sources, mythology, and drama. Hellenic contributions to Western civilization.

329C Ancient Rome (4)

Prereq: soph. Early peoples of Italy, Etruscans, constitutional development of Republic, growth of empire, civil wars, history of principate to Constantine. Stresses archaeological sources, Latin literature, Roman life and institutions, Roman contributions to Western civilization.

330 History Through Film (4)

Examination of selected topics in U.S., European, or Third World history through films and readings accompanied by lectures and discussion.

330A African History Through Film (4)

Prereq: soph. This course explores transformations in the nature of African societies, cultures and economies in the twentieth century, particularly in the post-1960 period. It will use film as a medium for studying issues as they are understood by Africans themselves. We will see African filmmakers as social historians, historians concerned with the everyday nature of the lives of common people.

331 The Ancient Greek Games: The Panhellenic Festivals (4)

Prereq: soph. Examines panorama of Greek athletic activity over period of approximately 3,000 years beginning with Minoan or Cretan civilization, ca. 3000 B.C., and terminating with decline of polis, or Greek city-state, ca. 146 B.C. Explains how Panhellenic festivals helped to unite various currents of Greek civilization.

332 History of Women in the Middle East (4)

Prereq: jr. S. Quinn. Main themes, divided chronologically and thematically, include the history of veiling, polygamy, divorce, and laws of personal status during the early periods of Islam; a re-examination of "harem politics" and the role of women in the Ottoman empire; the effects of Westernization and modernization in the 19th-century societies; and recent trends such as the enforcement of the veil in the Islamic Republic of Iran and Egyptian fundamentalist movements; section on women poets and novelists.

333 Oil, the Persian Gulf, and World Power (4)

Prereq: soph or jr or sr. This course examines the international politics of oil from an historical perspective, emphasizing the importance of the Persian Gulf. Topics include: the roots and guiding principles behind oil policy; oil in the two world wars; postwar changes in global oil production, culminating in the oil crisis of the 1970s; the pattern and end of the British dominance in the Gulf; the subsequent expansion of U.S. commitments in the region since the 1970s; the role of local states, in particular Iran, Iraq, and Saudi Arabia; oil today and prospects for the future.

334 The Arab-Israeli Dispute (4)

Prereq: soph. Analysis of underlying causes of Arab-Israeli confrontation from 1890s to present, including origins of Arab nationalism and Zionism, evolution of British Mandate in Palestine, Great Power involvement in Middle East, and recent developments in conflict between Israel and Arabs.

335C Legacy of Genghis Khan (4)

Prereq: soph. S. Quinn. An examination of Genghis Khan's life and legacy, emphasizing historical problems such as the life of the Khan, Mongol military tactics, economic policies, the interaction between nomadic and settled peoples, premodern state formation, and Mongol-influenced artistic and literary achievements. Particular attention given to Genghis Khan's legacy in the Middle East and Islamic world, including conquests of the warlord, Tamerlane, and the rise of the three "Gunpowder Empires."

336A North Africa in Modern Times (4)

Prereq: soph. Maghrib: its geography, ethnic composition, and history since antiquity; French conquest of Algeria, Tunisia, and Morocco; administrative systems; economic development; French-Muslim relations.

336B North Africa Since 1914 (4)

Prereq: soph. Rise of nationalism; struggle for political independence; political, economic, and social problems in independent North Africa; North Africa in world affairs.

337A Middle East 600 to 1500 (4)

Prereq: soph or jr or sr. Islamic history and civilization from the rise of Islam to the end of the 15th century. Includes discussion of establishment of Islam, development and spread of Muslim rule, medieval caliphates and their cultural achievements. Mongol invasions, crusades, and contributions of Arabs, Persians, and Turks to Islamic civilization.

337B Middle East 1500-1800 (4)

Prereq: soph or jr or sr. Islamic history and civilization during the period of the great "Gunpowder Empires." Includes discussion of Turkish-Mongol background, role of Tamerlane, origins of Ottomans, Safavids, and Mughals, military organization, kingship, "harem politics," cultural developments, and decline and transformation of these great empires.

337C Survey of Middle East History Since 1800 (4) (2C)

Prereq: soph. S. Quinn. History of Middle East since era of French Revolution. Transformation of Ottoman and Persian Empires into 20th-century Middle East states; impact of nationalism, secularism and industrialism on region; and position of Middle East in contemporary world affairs.

338 History of West Africa (4)

Prereq: soph. History of West Africa from early times to present, peopling of sudanic and forest regions; development of trade; Islam and rise of sudanic empires; slave trade and forest states; colonial era; independence movements; problems of nationalism.

338A History of East Africa (4)

Prereq: soph. History of East Africa from early times to present, with particular emphasis on period since 1750. Although neighboring countries also studied, greatest attention paid to region that comprises present-day Kenya, Uganda, and Tanzania.

341A Early Africa (4) (2C)

Prereq: soph. Africa in ancient world; spread of agriculture and iron working; rise of Islam; migrations of peoples; development of states; arrival of Europeans; beginning of slave trade.

341B Africa During Atlantic Slave Trade (4) (2C)

Prereq: soph. Slave trade; religious revolutions in western Sudan; development of African states; commercial revolution of 19th century; birth of plural society in South Africa; European partition of Africa.

341C Modern Africa 1890-Present (4) (2C)

Prereq: soph. Establishment of European rule in Africa; colonial period; rise of nationalism; decolonization and independence; problems of modern Africa.

342A South Africa to 1899 (4)

Prereq: soph. Establishment and transformation of African societies (Bantu migrations); coming of

Europeans; evolution of Cape society (black, white, colored); conflicting nationalisms; Great Trek; rise of Zulu empire and mefcanne; mineral revolution and subjection of African chiefs; British imperialism and coming of South African War.

342B South Africa Since 1899 (4)

Prereq: soph. South African (Boer) War and reconstruction; formation of Union; global war and racial/regional/class conflicts over land, labor, and politics; rise of Afrikaner nationalism and triumph of apartheid, rise and radicalization of African nationalism, collision of nationalisms and expansion of conflict in 1970s; South Africa and modern world.

343 Revolutions in Southern Africa (4)

Prereq: 246. Historical background and developments up to present of revolutions in Mozambique, Angola, Zimbabwe (Rhodesia), Namibia (South West Africa), and Azania (South Africa).

344A History of the Malay World (4)

Prereq: soph. W. Frederick. Comparative view of Southeast Asian archipelago, emphasizing Indonesian civilization after 1750. Penetration of West, struggle with Imperialism and modernization, and present dilemmas. Indigenous views focus of attention.

344B History of Burma and Thailand (4)

Prereq: soph. W. Frederick. Comparative study of neighboring Buddhist states, emphasizing themes of change and continuity since mid-18th century. Special attention given to divergent responses to colonialism and Western-style development, and similarities in political and social forms.

344C History of Vietnam (4)

Prereq: soph. W. Frederick. Modern Vietnamese civilization since 15th century, emphasizing political and social change after 1800. Special attention given to Vietnamese struggle with outside powers, including China, France, U.S., and Soviet Union.

345A Southeast Asia to c. 1750: The Creative Synthesis (4) (2C)

Prereq: soph. W. Frederick. Highlights of pre- and proto-history and development of classical states. Emphasis on cultural synthesis (Hindu, Buddhist, Muslim, and animist influences) and theme of change and continuity in both Great and Little traditions of region.

345B Southeast Asia, c. 1750 to 1942: Change and Conflict (4) (2C)

Prereq: soph. W. Frederick. Indigenous change and widening effects of Western penetration, with emphasis on social and cultural developments. Nature of colonialism in region, and response of colonized seen in light of both traditional and modern influences.

345C Southeast Asia, 1942 to the Present: The Search for Stability (4) (2C)

Prereq: soph. W. Frederick. Japanese occupation and its relationship to great national revolutions of 1940s. Social and cultural context of nationalism and revolt, search for new political forms, and struggle against disunity and poverty.

346C Ancient China (4)

Prereq: Jr. Traces the evolution of the Chinese cultural norms from pre-history through the Qin to the Song dynasty. In some 3,000 years, the writing of the philosophical classics, the creation of literary and artistic models, and the development of the imperial governmental institutions made this China's Golden Age.

346D Imperial China (4)

Prereq: Jr. Imperial China surveys the middle period between ancient and modern China; from the 1200s when the Mongol Empire rose to conquer the Song, through to the maturation of Chinese civilization in the Ming/Qing to the decline of the imperial state in the 19th century. Two of China's greatest pre-modern novels will express contemporary values.

346E Modern China Since 1911 (4)

Prereq: Jr. This course spans the past century of revolutions, beginning with the overthrow of the Qing in 1911. From a disintegrated state with warlords, through the Kuomintang's National Revolution and war with Japan to the victory of the Chinese Communist Party. Then, Mao Zedong's political movements, and post-Mao economic reforms continue the efforts to make China once again strong and prosperous.

348A Traditional Japan (4)

Prereq: soph. Traces major elements of Japanese culture and thought from their indigenous origins, through major Chinese influence, results of medieval civil warfare, and up to premodern workings of Japan's sophisticated commercial economy.

348B Modern Japan (4)

Prereq: soph. Political weakness of Tokugawa system leading to opening of Japan to Western trade and restoration of emperor; favorable economic and political base which allowed Japan to enter successfully into competition with European nations; Japan's ultranationalist era and postwar reconstruction.

350A History of Early Science (4)

Prereq: soph. Overview of the history of science from the ancient world to the 17th century. Examine areas of knowledge and technique most modern people consider to be a part of science, and some they do not, including medicine, astronomy, construction, mining, navigation, and warfare. Consider how politics, economy, gender, and religion affected the development of these technologies and sciences.

351 Medieval People (4)

Prereq: soph. In-depth inquiries into lives and epochs of representative individuals of medieval Europe: Middle Ages through biography.

352 Medieval Civilization (4)

Prereq: soph. Survey of cultural and intellectual history. Transmission of Christianity and classical culture to barbarians and their work of combining them into new civilization in early Middle Ages. Medieval civilization at its height: Church, schools and scholastic thought, and secular culture.

353A The Barbarian West: Europe 400–1000 (4)

Prereq: soph. Foundation of Medieval synthesis, 300–1100; collapse of Roman world, establishment of successor states, spread of Christianity, formation and development of European culture.

353B The Later Middle Ages (4)

Prereq: soph. Maturing of Medieval Europe and transition to early modern era, 1100–1450; developments in commerce, religious life and institutions, governments, politics, learning, and secular culture.

353C History of the Crusades (4)

Prereq: soph or jr or sr. The Crusades brought peoples of three religious communities in close contact: Jews, Christians, and Muslims. This course will provide an overview of the history of that contact, examining the political, social, cultural, and religious impact the Crusades had on each community.

354A Early Christianity: East and West (4)

Prereq: soph. Investigates historical development and spread of Christianity from its origins to about A.D. 600. Content includes Greek and Hebraic backgrounds, early church fathers of East and West, ecumenical councils, early heresies, and development of church doctrine.

354B Modern Christianity (4)

Prereq: jr. This course will explore the modern history of the world's largest and most geographically diverse religious tradition. While primarily considering modern Christianity's Euro-American "heartlands" this class will also examine Christianity's transition during the modern period from a religion centered on Europe, its colonies and settlements to a global religion that has helped define and resist modernity.

354C Medieval Christianity: Church and Society (4)

Prereq: soph or jr or sr. Historical developments within Christian society between the 5th and 14th centuries, with special focus on western Europe and the church of Rome. Central topics will include the inner financial and legal workings of the church; monks as reformers and representatives of the papacy; heresy, mysticism, and the problem of uncovering popular devotion; the importance of gender in shaping religious theory and practice; cooperation and conflict between religious leaders and worldly rulers. Along with a textbook, students will read, analyze, and discuss original source material in translation.

356A The Italian Renaissance (4)

Prereq: soph. Major political, social, economic, and cultural currents of Italian city-states from 1300 to 1550. Focus on Dante, Petrarch, Boccaccio, Bruni,

Machiavelli, Guicciardini, Michelangelo, Leonardo da Vinci, etc.

356B The Northern Renaissance (4)

Prereq: soph. History of Renaissance outside Italy: politics, economics, sociology, and intellectual currents of Germany, France, Spain, Burgundy, and England from 1300 to 1600. Treated thematically, course focuses on Erasmus, More, Ximenes, Reuchlin, Hutten, Bude, etc.

356C The Reformation (4)

Prereq: soph. Protestant, Catholic, and Counter-Reformations in Europe, showing their relationships to social, political, economic, and religious movements of 15th and 16th centuries. Roles of Luther, Zwingli, Calvin, Cranmer, Erasmus, Loyola, etc.; Protestant and Catholic churches and sects in western and eastern Europe.

357 Florentine People (4)

Prereq: soph. Major figures in Florence from 1300 to 1600, from Dante to Galileo; concerns are with some originators of modern thought in areas of artistic theory, poetic form, Italian language, political ideas, scientific method, and historical composition.

357A Spain in the Age of Discovery, 1450–1700 (4)

Prereq: soph or jr or sr. Course explores Spanish society and culture during the era of discovery, conquest, and colonization of the New World, 1450–1700. It traces the rise to prominence of Spain as the colonial power of the 16th century, its domination of European politics and trade, and its subsequent decline in the 17th century. Course explores the development of Spanish society, culture, and institutions in relation to cultural encounters in Europe and the Americas.

358A Early Modern Europe, 1559–1648 (4)

Prereq: soph. Europe from 1559 to 1648. Main political, economic, and social developments in Europe during Age of Spanish Preponderance; Philip II, wars of religion, Richelieu, Thirty Years' War, and ideological struggles.

358B Early Modern Europe, 1648–1715 (4)

Prereq: soph. Europe from 1648 to 1715. Main political, economic, and social developments in Europe during Age of Louis XIV; French hegemony, rise of balance of power, absolutism.

358C Early Modern Europe, 1715–1774 (4)

Prereq: soph. Europe from 1715–1774. Main political, economic, and social developments in Europe during 18th century: despotism, diplomatic revolution, competition for empire, Enlightenment.

360A Women in Early Modern European History, 1400–1800 (4)

Prereq: junior. The course explores the social, cultural, political, and economic roles of women in Europe for the fifteenth through the eighteenth centuries. Key issues will include women's political power and participation in politics; sexuality and the body; women's spiritual and religious roles; and women's interactions with men.

360B Women in Modern European History, 1800–present (4)

Prereq: junior. The course explores the role of women in western European society from the French Revolution to the present. Key themes will include how women have affected and been influenced by social, cultural, and political currents; the place of women in historical literature; and how women's roles have changed over time at the political as well as the everyday levels.

360C Women Warriors: Women and War in Europe (4)

Prereq: soph. This course analyzes the role of women in military capacities in Western Europe from a social-cultural perspective.

361 The French Revolution (4)

Prereq: soph. The French Revolution traditionally has been seen as the dividing line separating the Old Regime from modern times. This course examines the origins, course of events, and significance of the French revolutionary experience.

362A Europe, 1814–1871 (4)

Prereq: soph. Europe from Congress of Vienna through Franco-Prussian War, including growth of liberalism and nationalism, revolutions of 1830 and 1848, Industrial Revolution, unification of Italy and Germany, social and intellectual movements.

362B Europe, 1871–1914 (4)

Prereq: soph. Development of Austria-Hungary, France, Italy, Germany, Great Britain, and Russia, including imperialism, background of WWI, and social and intellectual movements.

364A Europe Between World Wars (4)

Prereq: soph. Fascism, Communism, World Depression, and Twenty-Year Armistice between 1919 and 1939. Economic and cultural approach.

364B Contemporary Europe (4)

Prereq: soph. Cold War, Communist bloc, European integration, decolonization, Gaullist regime, and problems of present-day Europe.

365 The Problem of Church and State in European History (4)

Prereq: soph or jr or sr. This course is devoted to the problem of the relationship between political and religious institutions and its impact on the course of European history. We will focus on four specific periods: 1) The High Middle Ages (1000–1300); 2) The Reformation; 3) The Age of Revolution, and 4) the 20th century.

366A Modern France in the 19th Century (4)

Prereq: soph. Rise and fall of Napoleon; his impact on France and Europe; monarchist interlude; revolution of 1848 and election of Louis Napoleon; Second Empire, liberal and authoritarian; wars and transformation of Europe; fall of Napoleon and Paris Commune; Third Republic.

366B Modern France in the 20th Century (4)

Prereq: soph. Dynamic and stagnant aspects; nostalgia and rejection of 20th century; impact of 20th century; democracy in France; European and colonial wars; communist movement from Popular Front to Common Program; anti-communism in France; French in changing world; De Gaulle, his predecessors, and his successors.

368A Modern Germany in the 19th Century (4)

Prereq: soph. Cosmopolitanism and movement to create national German state; rise of capitalism and decline of handicraft; liberation of German peasantry; revolution of 1848 and reaction; blood-and-iron chancellor; Germany's rise to European predominance; rise of worker movement; German society at turn of century.

368B Modern Germany in the 20th Century (4)

Prereq: soph. Germany on eve of WWI; military fiasco and creation of Weimar Republic; Weimar, Berlin, Munich, and Dresden; attempt to forge democracy; Third Reich and transformation of German society; WWII and Final Solution; Communist Germany and Federal Germany; two societies and two states since 1945.

370 History of Byzantine Empire, 324–1453 (4)

Prereq: soph. Decay of Roman World and emergence of Christian empire, 324–717; Medieval Roman Empire, 717–1056; weakening of central administration and apparent revival under Comneni, 1025–1204; Byzantium and neighboring world, 1204–1453; church and state; education and learning; Byzantine art; social, political, and military developments.

371 Witchcraft 1400–1750 (4)

Prereq: jr; 101, 122, or 123. Witchcraft in Europe, the British Isles, and the American colonies 1400–1750: its historical origins; its social-intellectual bases; the roles of gender, the law, church and state, and popular and elite cultures; the great witch hunts and trials; and witchcraft's decline and disappearance.

373A History of the Balkans 1354–1908 (4)

Prereq: soph or jr or sr. The Balkans from the rise of the Ottoman Empire to the beginnings of its collapse. Ottoman conquests and institutions in the Balkans, the region's social, cultural, and religious development as well as the fate of the Balkan peoples under Hapsburg rule from the 15th to the 18th centuries. The rise of Balkan nationalism after 1800, the growth of great power intervention, as well as the efforts of the Greek, Romanian, Serb, and Bulgarian peoples at state-building.

373B History of the Modern Balkans Since 1908 (4)

Prereq: soph or jr or sr. The Balkans from the Ottoman Empire's collapse to the present. Social and cultural history of the Balkans as well as how the region's peoples and states responded to the

challenges of both World Wars, a brief interwar independence, and their post-World War 2 absorption into the U.S. and Soviet blocs and the Greek Civil War. The collapse of Communism, the region's post-1989 transformation, and the course and impact of Yugoslavia's collapse.

374A Balance of Power: Napoleon to the Kaiser (4)

Prereq: soph. *N. Goda*. Diplomatic history from Congress of Vienna to WWI, including age of Metternich, Italian and German unification, new imperialism, and prewar alliances and alignments.

374B Origins of World War II, 1914-1941 (4)

Prereq: soph. *N. Goda*. International problems of peace and war, international organization and alliances. Theme: origins of WWII.

374C The Cold War, 1941-1989 (4)

Prereq: soph. *N. Goda*. International problems of peace and war on worldwide scale since 1939, international organization and alliances. Theme: global balance of power.

375 World War I (4)

Prereq: soph. Covers the origins of the war, both diplomatic and strategic, as well as the peacemaking afterward, but the central focus will be the war itself: the major offensives, Allied and German strategies and tactics, trench warfare of the Western Front, chemical warfare, the war in the air and on the seas, the home front, the use of the machine gun and the tank.

376 Biography: Leaders in 19th Century Europe (4)

Prereq: soph. Lives of great and near great as they influenced history.

377 Jewish Holocaust (4)

Prereq: soph or jr or sr. The origins of anti-Semitism in the West, the development of Nazi genocide, the reactions of European Jews including resistance, and the actions and inactions of bystander groups.

378 Espionage and History (4)

Historical perspective on modern secret intelligence operations, including espionage, propaganda, disinformation, cryptography, and counterintelligence. Examination of role of secret intelligence in foreign policy and national public policy, especially in times of war and crisis. Attention paid to intelligence and national security requirements of societies valuing openness and human freedom. Course stresses specific historical examples.

379 History of Sea Power (4)

Students examine the role of navies and maritime strategy in war, diplomacy, and the world economy from ancient times to the present. The focus is on the development of the British and American sea power: doctrine and operations; the impact of politics, culture, geography, finance, and technology; and the future of sea power.

380 Geopolitics and History (4)

The focus is on the development and influence of global strategic views in the context of European imperialism, the two world wars, and the Cold War; major thinkers such as Mackinder, Mahon, and Haushofer; the impact of air power, space, and information warfare; the outlook of emerging powers, including China and India; geopolitics in the interpretation of international history.

381 History of the Family (4)

Prereq: soph. Chronological examination of the history of the Western family from medieval to modern times in Europe and America. Focuses on changes in family life through time. Particular attention devoted to role of women in their relationship to men and children, for until the 20th century the characteristic area of women's activity was the family.

382A History of Russia (4)

Prereq: soph. *S. Miner*. Russian origins, Greek and Mongol influences, expansion of Muscovy, Ivan the Terrible, Peter the Great, Catherine the Great, Russia as great power, and shapes of its 19th-century society.

382B Russia: Road to Revolution 1825-1917 (4)

Prereq: soph. *S. Miner*. From tsarist Russia to communist revolution. Background for revolution: origins of Russian socialism, rapid social and economic change, 1905 Revolution, war and the collapse of the Romanov dynasty in 1917.

382C Soviet Union (4)

Prereq: soph. *S. Miner*. Soviet Union since the 1917 Revolution. Stalinism, WWII and expansion, Khrushchev, Brezhnev. Emphasis on internal affairs.

382D The USSR in World War II (4)

S. Miner. History of the Soviet Union during WWII. Topics include wartime diplomacy, espionage, social and political history of the USSR during the war, the creation of the communist states in Eastern Europe after the war, and the origins of the cold war.

383A History of Poland, 966-1905 (4)

Prereq: soph or jr or sr. Poland from earliest times to 1905. The rise of the Piast Polish state, its eastward expansion, conflict and cooperation with the Teutonic knights and German settlers, and the union with Lithuania in the 14th century that creates the Polish-Lithuanian Commonwealth. The Commonwealth's politics, culture, and multinational make-up, its struggles with its neighbors and partition. Political, social, and cultural life under foreign rule in the 19th century and the struggle for Polish independence.

383B Modern Poland from 1905 to the Present (4)

Prereq: soph or jr or sr. Poland from partition to independence; Polish struggles for imperial expansion in Eastern Europe; politics and culture in a multinational Poland, the tragedies of World War II, the Holocaust and subordination to the Soviet Union; the popular struggle to build a new, ethnically cleansed Poland and win autonomy within the eastern bloc; the vitality of religious life and nationalism; Poles' successful struggle to free their country from Soviet control and Poland's renewed independence after 1989.

389 Later Medieval England, 1307-1485 (4)

Prereq: soph. Age of Chaucer and Wars of the Roses. Investigation of political, social, intellectual, ecclesiastical, and economic aspects of period of ferment and rapid change.

390A Reformation Britain, 1450-1603 (4)

Prereq: soph. England in 16th century: Tudor absolutism, English Reformation, and major cultural and economic developments of Shakespeare's England.

390B Revolutionary Britain, 1603-1689 (4)

Prereq: soph. England in 17th century: constitutional crisis of Stuart period, republican experiment under Cromwell, and major cultural and economic developments.

391A English History to 1638 (4)

Prereq: soph. For English, political science, and prelaw majors and general students of history. Survey of institutional aspects of medieval England and social, political, and constitutional developments in Tudor and Stuart periods.

391B English History Since 1688 (4)

Prereq: soph. *J. Brobst*. For English, political science, and prelaw majors and general students of history. Emphasizes cultural and economic developments, growth of British Empire, constitutional and social reforms, and impact of WWI and WWII.

392A Making Modern Britain, 1689-1815 (4)

Prereq: soph. Survey of political, social, intellectual, cultural, and economic developments of England in years prior to and during American and French revolutions.

392B Victorian England (4)

Prereq: soph. Survey of England's history in 19th century, including examination of major political, cultural, and economic trends.

392C 20th Century Britain (4)

Prereq: soph. Students study Britain in the 20th century, focusing on the decline from world power: the onset of trouble before 1914; the experience of two world wars; society and policy between the wars, especially appeasement and its background; postwar developments, including the welfare state, de-colonization, and European integration.

392E British India and Great Game (4)

Prereq: soph. Students study the making of modern India, Pakistan, and Afghanistan, focusing on South Asia's importance in relation to world power: imperialism and nationalism, economic development, and the background to international security problems, including Kashmir, terrorism, and nuclear proliferation.

393A A Rise of the British Empire (4)

Prereq: soph or jr or sr. This course examines the sources, strategies, ideologies, and impact of the British Empire in the nineteenth century. The course evaluates British imperialism from regional as well as metropolitan perspectives, giving particular emphasis to the imperial roots of globalization — how the use of technology and information interlocked the British Empire as a worldwide network of trade, investment, migration, and military power.

393B Fall of the British Empire (4)

Prereq: soph or jr or sr. This course examines the fate of the British Empire in the twentieth century, focusing on the global impact as well as the process of decolonization. Topics include the question of imperial overstretch; the development of the Commonwealth; India's independence; and Britain's withdrawal from its smaller dependencies in Africa, Asia, and the Middle East through the return of Hong Kong to China in 1997.

394A The Medieval English Constitution (4)

Prereq: soph. English government from Anglo-Saxon times to end of Middle Ages. Growth of machinery of monarchy, central administration, courts and common law. Rise of Parliament.

394B The Modern English Constitution (4)

Prereq: soph. Emergence of modern English constitution during 16th and 17th centuries: creation and growth of Tudor Constitution; significance of English Reformation for constitution; Tudor Parliament, "Century of Revolution" (1603-1689) and crisis of Constitution; problems of sovereignty and obligation; constitution today.

395 History of Canada (4)

Prereq: soph. Introduction to Canada; study of its exploration and development under France and England, and its emergence as important modern nation.

395A European Intellectual and Cultural, 18th-20th Century (4) (1J)

Prereq: jr. Intellectual and cultural trends from the Enlightenment to the beginning of the 20th century. Themes include economic liberalism, philosophical liberalism, revolution, romanticism, nationalism, philosophy of history, Marxism, Nietzsche, racism, anti-Semitism, Social Darwinism, interpretive sociology, and comparative history.

395B European Intellectual and Cultural, 20th Century (4) (1J)

Prereq: jr. Intellectual and cultural currents in 20th century Europe. Themes include radicalization of intellectual life, Freud and psychoanalysis, fascism, Nazism, Communism, capitalism, feminism, postwar conservatism, post-modernism, collapse of European communism, and fin de siècle liberalism.

396J Writing on Historical Themes (4) (1J)

Prereq: jr. Students study and write on selected historical themes. Equal emphasis on historical materials and writing. Fulfills jr-level English composition requirement.

397T Honors Tutorial Seminar, European History (4)

Prereq: HTC. (fall)

398T Honors Tutorial Study, European History (4)

Prereq: HTC. (winter) Independent study. European history.

399T Honors Tutorial Study, European History (4)

Prereq: HTC. (spring) Independent study. European history.

401A Studies in Colonial American History (4)

Prereq: 24 hrs HIST. Literature and source materials of colonial American history. Readings and reports.

401B Studies of the Era of the American Revolution (4)

Prereq: 24 hrs HIST. *P. Griffin*. Literature and source materials of American Revolution. Readings and reports.

405 Studies in the Foundation of the American Republic, 1783-1819 (4)

Prereq: 24 hrs HIST. literature and source materials of early national period of American history. Readings and reports.

407 Studies of the Era of Sectional Controversy: 1819–1850 (4)

Prereq: 24 hrs HIST. Literature and source materials of era of sectional controversy, 1819–1850. Readings and reports.

409 Studies in the Era of the Foundations of Modern America, 1850–1901 (4)

Prereq: 24 hrs HIST. Literature and source materials for period 1850–1901 in U.S. history. Readings and reports.

411 Studies in the History of the United States in Recent Times (4)

Prereq: 24 hrs HIST. Literature and source materials of recent U.S. history. Readings and reports.

415 Studies in the Social, Cultural, and Intellectual History of the United States (4)

Prereq: 24 hrs HIST. Selected topics. *Tier III equivalent* course.

417 Studies in the History of American Foreign Relations (4)

Prereq: 24 hrs HIST. C. *Pach*. Literature and source materials of American foreign relations. Readings and reports.

421 Studies in Regional History (4)

Prereq: 24 hrs HIST. Literature and source materials of U.S. regional history. Readings and reports.

424 Studies in the History of U.S.–Latin American Relations (4)

Prereq: 325. Readings and research papers on major issues in 20th-century U.S.–Latin American relations.

426 Dictatorship in Latin American History (4)

Prereq: 323C. Focuses on predominant type of political/governmental system in Latin America: authoritarian dictatorship. Examines major examples of 20th-century ideological authoritarianism in Latin America ranging from populist authoritarianism of Juan Peron in Argentina to bureaucratic authoritarian regimes recently in power in Southern Cone and Brazil. Attention devoted to competing schools of interpretation which attempt to explain recurring phenomenon of nondemocratic forms of government in Latin America.

427 Studies in Recent Latin American History (4)

Literature and source materials of recent Latin American history. Readings and reports.

429 Studies in the History of Ancient Greece (4, max 8)

Prereq: 24 hrs HIST. Literature and source material of ancient Greek civilization. Readings and research paper. Themes vary from quarter to quarter. May be repeated for credit.

435 Studies in Middle East History (4)

Prereq: 24 hrs HIST. Selected topics on Middle East since 1914. Readings and reports.

441 Studies in African History (4)

Prereq: 16 hrs HIST or INST. Literature and source materials of African history. Readings and reports.

445 Studies in the History of Southeast Asia (4)

Prereq: 24 hrs HIST. *W. Frederick*. Literature of Southeast Asian history and culture generally, with particular emphasis on selected developments in 19th and 20th centuries. Readings and reports.

449 Studies in the History of East Asia in Modern Times (4)

Prereq: 24 hrs HIST. Historical literature relating to process of modernization of China and Japan from 1860s to 1960s. Readings and reports.

453D-Z Studies in Medieval History (4)

Prereq: junior. Selected topics in medieval history. Readings in original sources and scholarship. Reports and final essay.

453E Rome in the Dark Ages (4)

Prereq: sr, and HIST 122 and (329C or 353 or AH212 or CLAS 255) An interdisciplinary course on the political, religious, and topographical history of the city and its environs over a long time span. We focus on periods of dramatic change, both political and physical, including the time around the reigns of the first Roman emperor, Augustus, and the first Christian emperor, Constantine; Rome under Gothic, Byzantine, Carolingian rule; the medieval

city around the first Jubilee in 1300; Renaissance Rome, and the fascist rebuilding of the city. *Tier III equivalent* course.

463 Studies in 19th-Century Europe (4)

Prereq: 24 hrs HIST. Literature and source material of 19th-century Europe. Readings and reports.

467 Studies in Modern France (4)

Prereq: 24 hrs HIST. Literature and source material of modern France. Readings and reports.

483 Studies in Russian and Soviet History (4)

Prereq: 24 hrs HIST. *S. Miner*. Literature and source material of Russian and Soviet history. Readings and reports.

491 Studies in Early Modern English History (4)

Prereq: 24 hrs HIST. Studies in early modern English history from multidisciplinary perspectives.

493 Studies in British History Since 1714 (4)

Prereq: 24 hrs HIST. Literature and source material of British history since 1714. Readings and reports.

495 History Internship (5)

Prereq: jr, perm. Designed to enhance skills for history majors through history-related work assignments in public and private agencies.

496 Quantitative Methods in History (4)

Introduction to descriptive and inductive statistical techniques used in historical research and analysis of current literature employing such techniques. Instruction in use of computer.

497T Advanced Honors Tutorial Study (4)

Prereq: HTC. (fall).

498 Problems in History (1–5, max 9)

Prereq: 24 hrs HIST. Intensive individual work either in research or individual systematic reading along lines of student's special interest under supervision of staff member.

498T Advanced Honors Tutorial Study (4)

Prereq: HTC. (winter) Independent study, advanced level.

499 Honors Studies of Selected Historical Topics (1–5, max 15)

Prereq: perm. Study, reading, research, and writing on selected topic; intended for students who plan to graduate with honors in history. Arrangements should be made during junior year.

499T Advanced Honors Tutorial Study (4)

Prereq: HTC. (spring) Independent study, advanced level.

Human and Consumer Sciences

Child and Family Studies (HCCF)**160 Introduction to Child Development (4) (25)**

Fundamental patterns of development and behavior during prenatal period through middle childhood. 4 lec. No credit awarded if EDEL 200 or PSY 273 has been taken.

160A Observing and Recording Children's Behavior (3)

Prereq: 160 or concurrent. Documenting children's cognitive and academic learning and their social, emotional, and physical development by using a variety of observational strategies such as running records, anecdotal records, checklists, rating scales, time sampling, event sampling, and formal observational instruments. 3 lec.

170 Introduction to Early Childhood Education (3)

Overview of the profession of early childhood education and the role of the teacher. 3 lec.

260 Diversity in Early Childhood Education (3)

Prereq: C or better in 170. Focuses on increasing awareness, sensitivity, and understanding of the diverse cultural, ethnic, linguistic, religious, and family backgrounds of children in early childhood education. 3 lec.

260L Clinical: Diversity in Early Childhood Education (1)

Prereq: C or better in 170, concurrent with 260. Clinical experience in an early childhood setting

that provides an opportunity to interact with children who share diverse (cultural, linguistic, ethnic, racial, socioeconomic, family forms, etc.) background experiences. 3 lab.

265 Infant and Toddler Development (3)

Prereq: 170. Provides in-depth information about the physical, social, emotional, cognitive and language development of children from birth to 3 years. Typical and atypical patterns will be covered as well as the environmental conditions that support optimal development. 3 lec.

270 Family Living (3)

(fall) Person-centered analysis of basic human relationship processes leading to successful modern American marriage, partnerships, and family experience. Special discussion and analysis of problems in each family stage, and of special issues in family life today. 3 lec.

299 Introduction to Human Services-Professional Assessment (3)

Prereq: soph, major. (fall) Introduction to field of child and family services/education/human services for students who have declared majors in child development, family studies, or family and consumer sciences education. Seminar sessions and performance assessment provide opportunity to assess professional competence at this level. 3 lec.

360 Human Sexualities (4)

Prereq: jr or sr. Explores effect of human sexuality on aspects of one's ability to form relationships which are integrative, creative, and recreational. Emphasis on realization on dynamic potential in wholeness of life pattern and in relationships, in light of scientific research. 4 lec.

361 Guidance and Classroom Management in Early Childhood (3)

Prereq: C or better 160 or PSY 273; 361L concurrent. Application of theories and principles or early childhood guidance and discipline. 3 lec.

361L Clinical: Guidance and Classroom Management in Early Childhood (1)

Prereq: C or better in 160 or PSY 273. Observation and participation in the guidance and classroom management in approved early childhood settings. 3 lab.

363 Creative Experiences in Early Childhood (4)

Prereq: C or better 361; CR or C or better 361L; 361L concurrent. Selection, preparation, presentation, and evaluation of activities and materials in art, music, language, psychosocial, and physical development for early childhood programs. Lab Fee = \$15. 4 lec.

363L Clinical: Creative Experiences in Early Childhood (1)

Prereq: C or better in 361; CR or C or better 361; CR or C or better 361L. Observation and presentation of creative experiences in approved early childhood settings. 3 lab.

364 Premath and Science with Young Children (4)

Prereq: C or better 361; 1 course BIOL or BIOS. (winter) Examples of early childhood programs, primary elements and issues that differentiate them. Selection, preparation, presentation, and evaluation of premath and science activities and materials. 3 lec, 3 lab.

365 Infant and Toddler Education (3)

Prereq: C or better 361, CR in 361L. (fall, alt yrs) Knowledge of ways in which children learn from birth to 3 years; opportunity to structure environment to foster social, emotional, cognitive, and physical development of infant, as well as understanding of issues and trends in infant education. 3 lec.

365L Clinical: Infant and Toddler Education (3)

Prereq: C or better in 361; CR in 361L. Assigned responsibility for care and education of infants and toddlers in groups. 9 lab.

366 Practicum in Early Childhood Education (6)

Prereq: 363, 364, perm. Lab experience in assisting the planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs. Required for students in the associate's degree program.

371 Family and Life Span Development (3)
Prereq: jr. Synthesis of essential concepts useful in comprehending families in light of developmental concept for family analysis through stages of individual and family life cycle. Course offers a survey study of the life span set in the context of the family 3 lec.

380 Death and Dying (4)
Prereq: jr. (spring) Examines why people fear death, how death affects family relationships, dynamics of guilt and bereavement, meanings of death, processes of dying, disposition of body, caring relationships. Synthesizes multiple dimensions of death and dying. 4 lec.

399 Junior Practicum—Professional Development (5)
Prereq: C or better 299, jr. major. (spring) Provides students with practical field-based experience in professional areas. 3 lec, 6 lab.

400 Senior Seminar (3)
Prereq: 299, 399 or concurrent, perm. Provides opportunity for comprehensive assessment in relation to personal and professional growth prior to exiting programs as professionals in child development or family studies. 3 lec.

400A Senior Seminar: Family Studies (4)
Prereq: 399, sr, no credit if 400, perm. Provides students with an opportunity for comprehensive assessment, synthesis, and integration of knowledge and skills in relation to the Family Studies program, and personal and professional growth prior to exiting the program. In addition, will assist in preparation of the final internship placement and professional career. *Approved Tier III equivalent.* 4 lec.

441 Evaluation in Child and Family Studies (3)
Prereq: sr. (arranged) Evaluation and assessment methods and techniques in relation to process and products in home economics programs and professions. 3 lec.

444 Adult Education in Human and Consumer Sciences (4)
Prereq: jr or sr. (winter, alt even yrs) Organization procedures, curriculum materials, and methods of conducting adult education groups in home economics. 4 lec.

452 Home Management for the Disabled Homemaker (4)
Prereq: jr or sr. (arranged) Recognizes unique home management demands faced by persons with disabilities and their families and determines creative methods and identifies resources to meet those demands. 4 lec.

453 Functional Assessment in Independent Living (3)
Prereq: jr. (arranged) Explores functional assets and limitations of persons with disabilities in completing household tasks, identifies methods and materials used in assessment of functional limitation, and determines resources and strategies to increase ability of clients to perform household tasks. 3 lec.

455 Curriculum and Teaching Strategies in Early Childhood (4)
Prereq: All methods courses. Synthesis of early childhood curriculum content, teaching strategies, and decision-making processes in curriculum development and implementation. *Approved Tier III equivalent.* 4 lec.

455L Clinical: Curriculum and Teaching Strategies in Early Childhood (2)
Prereq: All methods courses. Supervised lesson planning and teaching in early childhood classrooms serving children age 3 to grade 3. 6 lab.

462A Diversity in Families (4)
Prereq: C or better 371. (fall) Analysis of emerging pluralistic marriage and family life patterns in American society. 4 lec.

462B Parenthood (4)
Prereq: C or better 371. (fall) Analysis of dynamics of parenthood. 4 lec.

462C Middle Childhood (4)
Prereq: C or better 371. (winter) Analysis of developmental tasks of middle childhood years as they reflect and influence family guidance and transmission of values. 4 lec.

462E Youth Identity Crisis (4)
Prereq: C or better 371. (spring) Analysis of identity crisis in terms of its psychosocial aspects of adolescence. 4 lec.

462F Family Ties and Aging (4)
Prereq: C or better 371. (spring) Synthesis of multiple dimensions of aged family. 4 lec.

463 Administration in Early Childhood (3)
Prereq: C or better 363. (spring) History, philosophy, and objectives of early childhood administration including current trends. Problems in organizing and administering early childhood programs, play groups, and Head Start programs with emphasis on housing, staff, schedules, and financing. 3 lec.

465 Parent Education (3)
Prereq: C or better 361, 371. (fall) Philosophy, techniques, materials, and methods used in working with parents. Opportunities for observation and participation with parent groups, parent conferences, and home visitations. 3 lec.

467 Philosophy and Theories of Child Development (3)
Prereq: C or better 170, sr. (fall, alt yrs) Review of theories of child development with synthesis approach for students in early childhood education programs. 3 lec.

471 Family Life Education (4)
Prereq: C or better 371, jr. (winter) History, philosophy, and objectives of family life education, including current trends. Selected fundamental education problems explored. Examination of various dimensions of teacher's role and critical appraisal of student's professional competency to teach classes in family life education. 4 lec.

472 Special Studies in Child and Family Studies (2-5)
Prereq: perm. In-depth independent study in selected area

474 Student Teaching in Early Childhood (6-12)
Prereq: perm. Lab experience in planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs.

499 Field Experience in Family Studies (12)
Prereq: 399, 400, perm. On-the-job training through cooperation with social, welfare, or community agencies, hospitals, early childhood programs.

Food, Nutrition and Hospitality (HCFN)

105 Introduction to Food Operations Management (1)
Prereq: perm. acceptance as food service student manager trainee. Overview of basic management concepts as they relate to the successful operation of a food service. 1 lec.

110 Introduction to Hospitality (4)
Prereq: fr or soph only. (fall, winter) Overview of restaurants, institutional food service, hotels, and travel and tourism. Exploration of different career possibilities in the hospitality industry. 4 lec.

120 Meal Management (3)
Prereq: human & consumer science major (winter) Principles of food preparation and nutrition emphasizing use of time, energy, and resources in management of meals. Government regulations controlling food supply. Lab Fee= \$40. 2 lec, 3 lab.

128 Introduction to Nutrition (4) (2A)
Nutrients, their food sources and functions in body, application to planning adequate diet through life cycle. 4 lec.

222 Food Science and Principles (4)
Prereq: C or better in 120; CHEM 121 or 151. (spring) Scientific principles applied to selection, storage, and preparation of foods. Lab fee= \$40. 3 lec, 3 lab.

232 Infant and Child Nutrition (4)
Prereq: 128, HCFN 160 or PSY 273 or EDEL 200. (arranged) Dietary factors related to nutritional status in pregnancy, infancy, preschool, and school-age children. Contribution of nutrition education and school lunch program in school curriculum. 3 lec, 2 lab.

260A Lifespan Nutrition: Maternal to Adolescence (2)
Prereq: C or better in 128. Examination of nutritional needs and unique concerns to foster optimal growth and development during maternity (pregnancy and lactation), infancy, childhood, and adolescence. Principles of sound nutrition, as elucidated through current research, used to plan and implement recommendations for dietary change during these four stages of the life cycle. 2 lec.

260B Lifespan Nutrition: The Adult and Geriatric Years (1)
Prereq: C or better in 128. Examination of nutritional needs and unique concerns to foster achievement and maintenance of optimal health during the adult and older years. Principles of sound nutrition, as elucidated through current research, used to plan and implement recommendations for dietary change during these two stages of the life cycle. 1 lec.

275 Training in Hospitality (4)
Prereq: 110, no credit if COMS 421. Prepares students to direct and develop training programs that will prepare employees for new roles, redesign people practices to support and drive corporate culture of hospitality operations. 4 lec.

299 Sophomore Practicum—Professional Awareness (1)
Prereq: C or better 120, 128, COMS 101 or 103. (fall) Development of an awareness of the history, philosophy, goals, organization, and requirements of the dietetic profession. 1 lec.

299B Sophomore Practicum: Introduction to Food Service (4)
Prereq: C or better 120. Food science principles applied to quantity food production. Develop an understanding of food safety and sanitation, standardized recipes, and food service equipment. 8 lab

330 Food Sanitation and Safety (2)
(fall) Applied food service sanitation procedures in the food handling functions of purchasing, storage, preparation, and service. Hazard Analysis Critical Control Points (HACCP) covered. Upon completion, students eligible for national and Ohio certification in Food Safety. 2 lec.

333 Principles of Quantity Food Production (2)
Prereq: C or better 128, 222. (fall) Food preparation principles applied to large quantity food production, menu planning, recipe standardization, food cost, and service in institutions. Experience in residence dining halls. 2 lec.

334A Introduction to Food Production: Dietetics (2)
Prereq: C or better 330; 333 or concurrent. Application of principles of quantity food production. Experience in School of Human and Consumer Sciences commercial kitchen and café. Apply food safety and sanitation principles by participating in HACCP plan. Use standardized recipes and foodservice equipment in production of foods for service in Atrium Café. 6 lab.

334B Introduction to Food Production: Food Service (3)
Prereq: C or better 330; 333 or concurrent. Application of principles of quantity food production. Experience in School of Human and Consumer Sciences commercial kitchen and café. Apply food safety and sanitation principles by participating in HACCP plan. Use standardized recipes and foodservice equipment in production of foods for service in Atrium Café. 8 lab.

335 Food Service Purchasing (4)
Prereq: C or better 333. (spring) Managerial approach to the purchasing and selection of a wide variety of food, beverage, and nonfood items. Emphasis placed on purchasing the optimal amount at the optimal price. Upon completion, students eligible for national certification in Food Purchasing. 4 lec.

340 Hospitality and Nutrition Study Tour (2-4)
Prereq: Max 5 hrs. Exposure to the latest trends, foods, and equipment in the hospitality industry.

360 Catering Practicum (1-3)
Prereq: Perm. Catering for special events that provide students the opportunity to apply

technical, conceptual, and interpersonal skills. Emphasis on group dynamics and management team functions. 3-9 lab.

361 Hotel Operations (4)

Prereq: 333, MKT 202. Addresses issues of managing various operating departments of a hotel including: front office, housekeeping, controller, human resources, sales and marketing, safety and security, and facility management. 4 lec.

362 Convention and Event Planning (4)

Prereq: 333, MKT 202, no credit if COMS 405. Synthesis of sequence of events required in planning a convention, meeting, or function in either a professional or social setting. 4 lec.

382 Intermediate Nutrition (4)

Prereq: C or better 128, CHEM 123 or 153. (spring) Examination of the macronutrients from a scientific standpoint, including their metabolism, utilization at the cellular level, and recommended intake for the prevention of chronic disease and health maintenance. 4 lec.

399A Dietetics/Nutrition with Science Field Experience (5)

Prereq: C or better 299, 424, 499A, BIOS 345. (summer) Professional experience in hospitals, nursing care centers, community agencies providing nutrition care, government agencies charged with nutrition policy, or other direct nutrition providers under daily supervision of a Registered Dietitian (RD).

399B Food Service Field Experience (5)

Prereq: C or better 334. (summer) Professional experience in restaurants, hotels, or other hospitality establishments under the supervision of an experienced professional.

399D Hospitality Field Experience (16)

Prereq: C or better in 333, perm. Professional experience in restaurants, hotels, or other hospitality establishments under the supervision of an experienced industry supervisor.

400A Dietetics Senior Seminar (1)

Prereq: 399A. Provides an opportunity for majors in dietetics and nutrition with science to demonstrate personal and professional growth by investigating a topic and presenting it in class. Students lead discussions on topics that affect the profession and share experiences gained during field experience. 1 lec.

400B Food Service Seminar (1)

Prereq: 399B. Provides an opportunity for food service management students to demonstrate personal and professional growth by sharing work experiences in verbal and written form with staff and fellow students. 1 lec.

400D Hospitality Seminar (3)

Prereq: C or better in 399D, no credit if 400B and 498. Development of portfolios and case study reviews provide an opportunity for hospitality students to demonstrate personal and professional growth through reflection and career assessment. 3 lec.

422 Experimental Foods (4)

Prereq: sr., C or better in 222; CHEM 302, PSY 221. (spring) Factors which affect results of different methods used in food preparation. Research techniques using subjective and objective evaluation of products. *Approved Tier III equivalent.* Lab fee= \$50. 3 lec, 3 lab.

424 Medical Nutrition Therapy I (4)

Prereq: C or better 382; BIOS 345 or concurrent. Medical nutrition therapy associated with the prevention and treatment of disease, including overweight/obesity, hypertension, hyperlipidemia, diabetes, mellitus, and kidney disease. 4 lec.

426 World View of Nutrition (3)

Prereq: C or better 128; SOC 101 or ANTH 101; jr or sr. (winter) Survey of world food situation with consideration of environmental, cultural, governmental, and economic factors that relate to food production and consumption. Evaluation of these patterns in meeting dietary needs. 3 lec.

427 Studies in Foods and Nutrition (2-4, max 8)

Prereq: 128, 222, jr. (arranged) Directed studies in some aspect of foods and/or nutrition; topics selected by students with approval of faculty member; frequent conferences.

428 Advanced Nutrition (4)

Prereq: C or better 382, BIOS 345, CHEM 302 (fall). Examination of the micronutrients from a scientific standpoint, including their metabolism, utilization at the cellular level, and recommended intake for the prevention of chronic disease and health maintenance. 4 lec.

429 Community Nutrition (3)

Prereq: C or better 128, 382, jr. (spring) Assessment of community nutrition needs. Survey of agencies and programs providing services. Role of nutritionist. Methods and resources for nutrition education. Legislation. 3 lec.

430 Medical Nutrition Therapy II (4)

Prereq: C or better 424, 428, BIOS 345. (winter) Medical nutrition therapy associated with the prevention and treatment of disease, including gastrointestinal, pulmonary, and wasting diseases. Enteral and parenteral nutrition. 4 lec.

431 Studies of Science of Nutrition (1)

Prereq: C or better 428; BIOS 345 or 342 and 343; BIOS 463. (arranged) Nutrition as related to physiological and metabolic processes. Individual research project. 2 lab.

432 Research Design and Methods in Nutrition (3)

Concurrent with 430; PSY 121 or 221. Overview of research design and methodology with practice application to the fields of nutrition and dietetics. A group research project will be carried out. 2 lec., 3 lab.

437 Food Service Cost Control (4)

Prereq: C or better 333; CS 120, ACCT 102. (winter) Introduction to tools and functions of management in food service with emphasis on organization structure, inventory control, staffing, human relations skills, and cost control. 4 lec.

438 Management of Maintenance Systems in the Hospitality Industry (4)

Prereq: C or better 437. (spring) Institutional equipment purchasing, kitchen layout design, facilities management, and cost control. 4 lec.

439 International Cuisine (4)

Prereq: C or better 333, 437. (spring) Principles of international cuisine, advanced food preparation, and research of areas of specific interest. Special fee. 2 lec, 4 lab.

440 Beverage Management (4)

Prereq: C or better 437 or concurrent. (winter) Managerial approach to beverage management in hotels, restaurants, and catering operations. Emphasis on facility planning, merchandising, and managing a beverage operation. Upon completion, students eligible for national certification in Beverage Management. 4 lec.

441 Principles of Tourism (4)

Prereq: 333 or REC 305. Exploration of major concepts in tourism, what makes tourism possible, and how tourism is or can become an important economic influence on a region, state, or country. 4 lec.

442 Accounting in the Hospitality Industry (4)

Prereq: 437, ACCT 102. Examination and application of managerial accounting principles in the hospitality industry. 4 lec.

443 Marketing for Hospitality and Tourism (4)

Prereq: 333, MKT 202. Application of marketing principles and concepts for the hospitality and tourism industry. 4 lec.

499A Nutrition Counseling (2)

Prereq: C or better in 382. Introduction to the theory of medical nutrition therapy; communicating health and nutrition advice to consumers; and behavior change models used in MNT. 2 lec.

499B Hospitality Practicum (3)

Prereq: C or better 399D. (arranged) Food service experience at a food service establishment under the supervision of an experienced professional.

499C Nutrition Counseling Practicum (1)

Prereq: C or better in 499A or concurrent. Offers the opportunity for students to counsel client(s) in a one-on-one and group format under the supervision of a registered dietitian; including assessment, treatment, evaluation and follow-up in out-patient care. 3 lab.

General Education (HCGE)

110 Education in Family and Consumer Sciences (2)

Prereq: Fr or soph only. Opportunity to gain awareness of varied career choices as a family and consumer sciences education major and introduce students to workforce education for middle, high school and adult education. Emphasis on curriculum discussion, new trends in career/technical education and various resources. 2 lec.

340 Teaching of Family and Consumer Sciences (4)

Prereq: HCCF 299, EDTE 200, 201, 202. Family and consumer sciences programs at junior and senior high school level. Special emphasis on vocational education, curriculum development, evaluation procedures, and methods of teaching. 4 lec.

345J Writing in Human and Consumer Sciences (4) (1J)

Prereq: jr. (winter) Investigation and analysis of current issues and concerns in human and consumer sciences professions. Emphasis placed upon developing variety of writing formats in order to communicate effectively with selected audiences. 4 lec.

391 Equipment (2-4)

Prereq: 390. (arranged) Selection and use of household equipment including materials, construction, operation, and care.

395 Home Management (3)

Prereq: soph. (arranged) Decision making applied to use of family resources with purpose of creating family environment in which optimum human development will occur. 3 lec.

396 Home Management Laboratory (4)

Prereq: soph. (arranged) Principles of decision making and management in group living situation. Home management house experience provided. 8 lab.

450 Problems in Teaching Home Economics (2-4, max 6)

Prereq: perm. (arranged) Individual problems in teaching.

459 Human and Consumer Sciences Seminar, Workshop and Short Course in International Service (2-4)

Special seminar or workshop for international students or for family and consumer sciences majors who want to prepare for international service.

479A-K Workshop in Human and Consumer Sciences (1-6)

Special workshops on topics related to human and consumer sciences.

479A Home Economics Education

479B Clothing and Textiles

479C Food and Nutrition

479D Child Development

479E Consumer Economics

479F Home Furnishings

479G Home Management

479H Household Equipment

479I School Lunch Management

479K Family Life Education

490A-D Independent Study (2-5, max 15)

Prereq: perm. Independent study, advanced level, under direction of faculty member in area of specialization.

490A Family Studies and Community Service

490B Fashion and Retail Merchandising

490C Interior Architecture

490D Human Nutrition and Food Science

491A Understanding Play (4)

Prereq: HCCF 160 or EDEL 200. Study of selected play theory for purpose of developing recreation therapy programs. (No credit if REC 460 is taken.) 3 lec, 2 lab.

491B-F Seminar or Short Course in Human and Consumer Sciences (2-4)

Advanced studies of research and recent developments in any of the five areas of family and consumer sciences.

- 4918 Foods and Nutrition**
491C Home Economics Education
491D Housing and Management
491E Textiles and Clothing
491F Research
495H Human and Consumer Sciences Honors Seminar (1-4)

Prereq: perm. Research and recent developments in human and consumer sciences.

- 497H Readings in Honors Work (1-4)**
 Prereq: perm. Independent reading in preparation for honors thesis. Exploration of reading topics in consultation with faculty

- 498H Honors Practicum in Human and Consumer Sciences**

Prereq: perm. Implementation of honors project or research in advancement of honors thesis

- 499B Field Work in Home Economics—Job Training (5-12)**

Prereq: perm. (arranged) On-the-job training in area of specialization.

- 499B Field Work in Home Economics—Job Training (5-12)**

Prereq: perm. (arranged) On-the-job training in area of specialization.

- 499H Honors Thesis in Human and Consumer Sciences (3-7)**

Prereq: perm. Completion, oral defense, and presentation of honors thesis.

Interior Architecture (HCIA)

- 180 Introduction to Residential Design and Architecture (3)**

(fall, spring) Study of residential design and architecture. Topics include design fundamentals, history of design, construction systems and materials, interior components, and professional practice in interior architecture. 3 lec.

- 180A Introduction to Residential Design Studio (1)**

Prereq: 180 or concurrent, IT 104 or concurrent, major. (fall, spring) Investigation and application of design theory and residential space planning. 2 lab.

- 181 Color Theory (4)**

Prereq: IT 104 or concurrent, HCIA pre-major or HCRM premajor or major. Focuses on the characteristics, relationships, and theories of color based on major color systems. The visual and psychological effects of color and light, various color phenomena, and the formal and expressive elements of color for interior environments are explored. Color is studied in terms of furnishings and finishes as related to space, form, and light. 2 lec, 4 lab.

- 200 Beginning Computer-Aided Design (2)**

Prereq: soph; CS 120 or MIS 201; HCID, HCRM, or Food Service Mgt major. (winter) Investigation of design using 3-D modeling and computer drafting applications. Emphasis given to application of these techniques to solve specific interior design/retail merchandising/food service types of design problems. 2 lec.

- 201 Environmental Design Studio I (4)**

Prereq: major, concurrent 201A. Conceptual investigation of the built environment with relation to digital and physical media in the design process. Emphasis placed on 3-dimensional and 4-dimensional explorations. Students must have completed a successful portfolio review and maintain a computer workstation in the design studio for this course. 8 lab.

- 201A Environmental Design Seminar I (2)**

Prereq: major only. Discussion and presentation of design and process theory and application as related to implementation of digital and physical media in the studio setting. Students must have completed a successful portfolio review and maintain a computer workstation in the design studio for this course. This course must be taken concurrent with HCIA 201. 2 lec.

- 202 Environmental Design Studio II (4)**

Prereq: 201, 201A, concurrent 202A. Investigation of basic environmental design process, ideation, communication, and application and evaluation of materials. Students must maintain a computer workstation in the design studio for this course. 8 lab.

- 202A Environmental Design Seminar II (2)**

Prereq: 201, 201A. Discussion and presentation of basic environmental design theories, concepts, and skills as related to projects in HCIA 202. Students must maintain a computer workstation in the design studio for this course. This course must be taken concurrent with HCIA 202. 2 lec.

- 211 Problems in Environmental Design Studio I (4)**

Prereq: perm, non-major, concurrent 211A. Investigation for the non-major of conceptual issues of the built environment with relation to digital and physical media in the design process. Emphasis placed on 3-dimensional and 4-dimensional explorations. 8 lec.

- 211A Problems in Environmental Design Seminar I (2)**

Prereq: perm, non-major. Discussion and presentation of design process theory and application as related to implementation of digital and physical media in the studio setting for non-majors. This course must be taken concurrent with HCIA 211. 2 lec.

- 212 Problems in Environmental Design Studio II (4)**

Prereq: perm, non-major, concurrent 212A. Investigations for the non-major in concepts and issues of basic environmental design. Emphasis on understanding design process, research, and evaluation of projects. Students may work in groups with interior architecture majors. 8 lab.

- 212A Problems in Environmental Design Seminar II (2)**

Prereq: perm, non-major. Discussion and presentation of theories, concepts, and skills related to HCIA 212. This course must be taken concurrent with HCIA 212. 2 lec.

- 279 Rendering and Presentation Techniques (4)**

Prereq: 202. (fall) Emphasizes the rendering of texture, light, shadow, materials, and interior architectural details. Techniques include perspectives, elevations, isometrics, and sketching in various color and black-and-white media. Final presentation techniques, such as logo development, lettering styles, and point size, are stressed. 2 lec, 4 lab.

- 288 Lighting Fundamentals (3)**

Prereq: jr; pass portfolio review. (winter) Fundamental concepts of illumination. Examination of vision, light, color, tasks, and quality of light. Terminology, symbols, concepts, electrical systems, basic equations, and lighting calculations. Exploration of light sources and controls. Study of physiological and psychological considerations. 3 lec.

- 299 Professional Practices (2)**

Prereq: major. (fall) Study of field of interior design concentrating on career opportunities and professional organizations. 2 lec.

- 300 Computer-Aided Design: Professional Applications (2)**

Prereq: HCIA, HCRM, Food Ser Mgt major. Instruction of computer-aided design applications to support the generation of architectural floor plans, elevations, schedules and details in construction documents. 2 lec.

- 301 Interior Architecture Studio I (4)**

Prereq: 202, 202A, concurrent 301A. Introductory studies in professional interior architecture studio practices. Design investigations as related to research, analysis, theory, ideation and conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional, and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

- 301A Interior Architecture Seminar I (2)**

Prereq: major. Discussion and presentation of theories, concepts, and skills related to 301. This course must be taken concurrent with HCIA 301. Students must maintain a computer workstation in the studio for this course. 2 lec.

- 302 Interior Architecture Studio II (4)**

Prereq: 202, 202A, concurrent 302A. Intermediate studies in professional interior architecture

studio practices. Design investigations as related to research, analysis, theory, ideation and conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional, and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

- 302A Interior Architecture Seminar II (2)**

Prereq: major. Discussion and presentation of theories, concepts, and skills related to 302. This course must be taken concurrent with HCIA 302. Students must maintain a computer workstation in the studio for this course. 2 lec.

- 311 Problems in Interior Architecture I (4)**

Prereq: perm, non-major, concurrent 311A, jr or sr. Problems in interior architecture for non-majors. Emphasis placed on understanding design process, research, conceptualization, critique, and evaluation of projects. Students may work in groups with interior architecture majors. 8 lab.

- 311A Problems in Interior Architecture Seminar I (2)**

Prereq: perm, non-major, jr or sr. Discussion and presentation of theories, concepts, and skills related to HCIA 311. This course must be taken concurrent with HCIA 311. 2 lec.

- 330 Cyberspace Design: Construction and Implementation of 3-Dimensional Digital Environments (5)**

Prereq: 180. Exploration and design of 3-dimensional cyberspace environments as related to the discipline of interior architecture. 2 lec., 8 lab.

- 340 Interior Design Computer-Aided Design (3)**

(fall, winter) Investigation and development of design using computer-aided design (CAD) program for floor plans, furniture placement, 3-D views, and plotting using computers. 2 lec, 2 lab.

- 350 Materials Construction I (3)**

Prereq: soph, jr, or sr. Investigation of material selection and application, construction systems, and building codes as related to interior architecture. Field trips to actual construction sites when available. 3 lec.

- 351 Materials Construction II (3)**

Prereq: 350. Investigation of interior finishes and materials, fire performance characteristics of materials, and material specifications. Field trips to actual construction sites when available. 3 lec.

- 352 Business Procedures and Contract Documents (3)**

Prereq: 351. (spring) Investigation and application of business procedures, types of business, insurance, liabilities, contractual agreements, and the support materials needed to operate a professional design practice. Professional presentation skills explored. 3 lec.

- 361 Professional Design Development and Construction Document Studio (4)**

Prereq: 301, 301A or 302, 302A; concurrent 361A. Emphasis placed on innovative and creative architectural detailing, communication issues and standards of architectural construction documents, application of building codes, and application accessibility and universal design issues. Students will create a set of construction documents that include code analysis, accessibility and universal design analysis, plans sections, details, schedules, and specifications. Projects based on continuation documents are created in electric format. Students must maintain a computer in the design studio as part of this course. Special fee \$15. 8 lab.

- 361A Professional Design Development and Construction Drawing Seminar (2)**

Prereq: 301, 301A or 302, 302A. Discussion and presentation of theories, concepts, and skills related to HCIA 361. This course must be taken concurrent with HCIA 361. Students must maintain a computer in the design studio as part of this course. 2 lec.

- 385 Home Furnishings Workshop (4)**

Prereq: 113, 180 or 6 hrs ART and perm. (arranged) Lab problems in advanced techniques in home furnishings, including upholstery, slip-covering, and refinishing furniture.

389 Lighting Design and Application (3)
Prereq: 288. (arranged) Application and design of interior illumination systems. Use of manufacturer product catalogs and data. Consideration of special lighting applications. Further study of light quality and color effects. Use of lighting formulas and calculations. 3 lec.

400 Senior Seminar—Professional Evaluation (1)

Coreq: 499 or concurrent. Provides opportunity for students to demonstrate personal growth by sharing experiences in verbal and written form with faculty and fellow students.

401 Interior Architecture Studio III (4)
Prereq: 361, 361A, concurrent 401A. Continuation of intermediate studies in professional interior architecture studio practices. Design investigations as related to research, analysis, theory, ideation and conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

401A Interior Architecture Seminar III (2)
Prereq: 361, 361A. Discussion and presentation of theories, concepts, and skills related to 401. This course must be taken concurrent with HCIA 401. Students must maintain a computer in the design studio for this course. 2 lec.

402 Interior Architecture Studio IV (4)
Prereq: 361, 361A, concurrent 402A. Advanced studies in professional architecture studio practices. Design investigations as related to research, analysis, theory, ideation and conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

402A Interior Architecture Seminar IV (2)
Prereq: 361, 361A. Discussion and presentation of theories, concepts, and skills related to 402. This course must be taken concurrent with HCIA 402. Students must maintain a computer in the design studio for this course. 2 lec.

411 Problems in Interior Architecture II (4)
Prereq: perm, non-major, concurrent 411A, jr or sr. Problems in interior architecture for non-majors. Emphasis placed on understanding design process, research, conceptualization, critique, and evaluation of projects. Students may work in groups with interior architecture majors. 8 lab.

411A Problems in Interior Architecture Seminar II (2)
Prereq: perm, non-major, jr or sr. Discussion and presentation of theories, concepts, and skills related to HCIA 411. This course must be taken concurrent with HCIA 411. 2 lec.

470 Research and Programming for Interior Architecture (3)
Prereq: 361, 361A, sr. Research methodologies and programming as related to interior architecture. Related topics include behavior-environment relationships, study of precedents in design typologies, and foundations in design appropriateness. Work in class directly relates to the development of project statement, program, research, and analysis for senior thesis project. 3 lec.

480 History of Furniture and Interior Design I (3)

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of the ancient world; the Middle Ages, Gothic and Renaissance; the French Periods and the Beidermeir Period. 3 lec.

481 History of Furniture and Interior Design II (3)

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of England (Tudor through Victorian) and America (Early American through Victorian). 3 lec.

482 History of Furniture and Interior Design III (3)

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of the twentieth century. 3 lec.

484 Advanced Interior Design Studio II (4)

Prereq: 281. (winter) Investigation, design, and specification of materials and furnishings for hotels and restaurants. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. Special fee. 2 lec, 6 lab.

486 Advanced Interior Design Studio IV (4)

Prereq: 281, major. (spring) Investigation, design, and specification of materials and furnishings for historic preservation/restoration or adaptive re-use of historic structures. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. Special fee. 1 lec, 6 lab.

495 Thesis Interior Architecture Studio (5)

Prereq: 402, 402A, 470. Independent project design and development as proposed in HCIA 470. Project requires application of interdisciplinary knowledge. Includes final exhibition or project. Student must maintain computer workstation in the design studio for this course. Tier III equivalent course. 10 lab.

499 Field Work—Interior Design (3–12)

Prereq: 280, 350A, 352. On-the-job training through cooperation with residential and contract firms for interior design majors.

Retail Merchandising (HCRM)

150 Design and Illustration Techniques (4)

Design and illustration techniques in relation to stylization and customer profiling. Variety of media introduced for visually communicating through a variety of presentation formats. Students learn the fundamental elements and principles of design, composition, and layout in preparation for professional portfolio. 2 lec., 4 lab.

201 Introduction to Retailing (4)

(fall, spring) Introductory examination of retailing as major economic force in the country and as significant contributor for career opportunities. Practical analysis of retail operations and impact of socioeconomic factors. Focus on terminology, trends, retailers, and advances in retail technology. 4 lec.

213 Design Analysis: Theory and Principles (4)

Prereq: 117, soph, Tier I math. (arranged) Fundamental principles as applied to understanding use and fit of commercial pattern and apparel construction. Emphasis on scientific thought, creative expression, and construction problems. 2 lec, 4 lab.

250 The Consumer in American Society (4) (2S)

Prereq: ECON 103 or soph. An analysis of basic components and operations of the economic system in the United States as they affect the consumer. Current consumer issues, influences, restrictions of consumer freedom of choice, major consumer expenditures, and resources which are available to consumers as they participate in decision making and consumption are discussed. 4 lec.

283 Apparel Production Process (4)

(on demand) Examination of ready-to-wear apparel production and manufacturing, related to design, sizing, fit and apparel components. 4 lec.

299 Professional Development (4)

Prereq: soph, jr or sr. (winter) In-depth study of career opportunities and job responsibilities; assessment of personal and professional assets and needs. On-the-job mini-experience related to career option. 4 lec.

312 Studies in Clothing and Textiles (2–4, max 8)

Prereq: perm. Selected topic in clothing and textiles.

315 Elementary Textiles (4)

Prereq: soph, Tier I math. (fall, winter) Properties and processing of fibers, yarns, fabrics, dyes, and finishes, with emphasis on consumer use. Lab Fee= \$15. 3 lec, 2 lab.

383 Product Development, Evaluation, and Distribution (4)

Prereq: C or better 201 or 283. Examination of the evaluation criteria for quality control of apparel, and related products. 4 lec.

399 Career Search Strategies (3)

Prereq: C or better in 299, major. (fall) Job-seeking skills, company review, issues in professional development. Mini-professional experience. 3 lec.

399A Retail Merchandising Field Work Experience (2)

Prereq: C or better in 399. Students seek and complete a field work experience in the retail industry for a total of 150 hours over a 5–10 week period (15–30 hours per week). Projects are related to the learning experience of the individual student. Emphasis is on reflection of the learning experience and its relationship to program goals.

3998 Retail Sales Internship (4)

Prereq: Acceptance into Sales Centre, perm. Students seek and complete a field work in an area of retail selling. A minimum of 300 hours of work experience are completed in an 8–10 week time period (37–40 hours per week). Projects are related to the learning experience and its relationship to program goals.

400 Internship Preparation (1)

Prereq: C or better in 399. Professional skills are evaluated, internship plans are discussed, and portfolios are reviewed. 1 lec.

405A History of Costume (4)

Prereq: jr. (winter) Costume through ages as reflection of historical period and source for present-day design. 4 lec.

405B History of Textiles (2)

Prereq: 315. (spring, even yrs) Textiles through ages as reflective of historical period and source for present-day design. 2 lec.

407 Global Issues in Textile, Apparel, and Retail Industries (4)

Prereq: C or better 201, ECON 104, jr comp, sr only. (fall, winter) Economic factors influencing textile and fashion industries treated in depth. 4 lec.

415 Flat Pattern (4)

Prereq: jr. (spring, odd yrs) Creative apparel design and interpretation with emphasis on flat pattern manipulation. 2 lec, 4 lab.

416 Draping (4)

Prereq: jr. (arranged) Designing of apparel using draping techniques. Emphasis on fabric as medium rather than pattern development in design process.

417 Retail Merchandising—Management (4)

Prereq: 201; jr. or sr.; CS 120 or MIS 101 or 201B or HCIA 340. (fall, winter) Marketing and management principles related to buying and controlling of merchandise. Emphasis on organizational structure, personnel management, planning, buying, and controlling merchandise assortments. Retail mathematics problems included. 4 lec.

418 Quality Control for Apparel and Textiles (4)

Prereq: C or better 315; sr. (spring) Principles, techniques, and standard testing methods for textiles and clothing. Lab sessions emphasize standard textile testing procedures and research methods. 2 lec, 4 lab.

419 Studies in Textiles Testing (3)

Prereq: perm. Individual research and lab testing of problems in advanced textiles.

420 New York Study Tour (2)

Prereq: jr. (spring, alternate yrs) Directed study problems related to retailing and apparel industry in conjunction with on-site tours of textile and apparel market centers. Fees for travel, food and housing. Students receive credit (CR), not a letter grade.

423 Retail Merchandising—Promotional Strategy (4)

Prereq: C or better in 201, JOUR 250, 150 or ART 113 or 116 or HCIA 181, jr or sr. Provides a broad understanding of the ways in which goods, services, and ideas can be promoted within the retail industry. Emphasis on practical application. Incorporates factors influencing retail promotional planning such as communication theory, corporate and store image, target markets, and competitive marketplace stance with the promotional mix components. 4 lec.

437 Strategic Merchandise Planning (4)

Prereq: C or better 417. (winter, spring) Advanced use of spreadsheets and merchandise mathematics incorporated into computer simulations of various

merchandising techniques. Topics include assortment planning, buying, personnel management, and inventory control. 4 lec.

454 Clothing for Persons with Special Needs (3)

(arranged) Exploring dressing techniques and functional design alternatives for individuals with special needs. Focus given to populations such as elderly, physically, or mentally disabled, and temporarily or permanently disabled. 3 lec.

480 Strategic Retail Policy (4)

Prereq: C or better 499. Capstone course serves as an intensive personal and professional assessment tool for prospective retailers. Projects lead to a completed professional portfolio. *Approved Tier III equivalent.* 4 lec.

499 Internship: Retail Merchandising (16)

Prereq: major, sr., 400, 12 hrs. from 383, 407, 417, 423, 437, perm. On-the-job experience through cooperation with industry and/or retail establishments.

Humanities

See English.

Human Resource Management (HRM)

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

320 Human Resource Management (4)

Prereq: MGT 202 or MGT 240 or perm. Survey of human resource management practices in areas of human resource planning, recruitment, selection, training and development, performance appraisal, compensation, discipline, safety audits, and personnel research. Includes applications in employment law and discussion of interface of line and staff responsibilities in organization.

324 Advanced Concepts in Human Resource Management (4)

Prereq: MGT 200 or 202 or 240. A course designed for students entering the HRM major. Topics covered include staffing, training and development, performance management, compensation and benefits, and employment relations. Also covered is the role of the HR manager as a contributing member of the management team and the strategic relationship of the HR function to the organization.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

425 Employee Relations (4)

Prereq: MGT 200. Study of discretionary and mandatory employee relations issues such as discipline procedures, individual employment contracts, union contract administration, and alternative dispute resolution. Topics also include employee safety and health issues, and compliance with health and safety regulations.

430 Compensation Management and Human Resource Information Systems (4)

Prereq: 320 or 324, or perm. Advanced study of compensation and the management of complex compensation systems. Topics will include job analysis, job evaluation, pay structure design and implementation, and performance-based pay. The role of information systems in the creation and administration of compensation systems will be addressed.

440 Training, Development, and Performance Management (4)

Prereq: 320 or 324. Advanced study of strategic knowledge and performance management systems in organizations. Topics include design, delivery, and evaluation of training and strategic training initiatives. The design of employee performance assessment methods and implementation of proper feedback processes will be addressed.

450 Recruitment and Selection (4)

Prereq: 320 or 324. Students will gain expertise in the design and application of strategic internal and external recruitment and selection methods, legal compliance and application to relevant issues such as downsizing, rightsizing, reengineering, and outplacement.

455 International Human Resource Management (4)

Prereq: HRM 320 or 324. Course exposes students to the management of human resources in foreign countries. Students will explore topics dealing with cultural issues associated with doing business in different countries. Recruiting, selecting, and motivating individuals in a foreign country, and the unique challenges of multinational human resource management will be studied.

460 Strategic Human Resource Management (4)

Prereq: HRM 320 or 324. Integrative course serving as capstone course. Students expected to apply functional HRM knowledge to an understanding of how, through acting as internal change agents, HRM helps the organization achieve its strategic objectives. Current applications such as outsourcing and downsizing may be brought into focus. *Tier III equivalent course.*

491 Seminar (1-5)

Prereq: perm. Selected topics of current interest in human resource management.

497 Independent Research (1-4)

Prereq: perm. Research involving some human resource management topic. Topic selection and study are under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Human Services Technology (HST)

The following courses for the A.A.S. in human services technology are available on the Chillicothe and Southern campuses.

100 Introduction to Human Services Technology (4)

Comprehensive introduction to knowledge and skills required for successful human services work. Topics include history and issues in human services, philosophical models, methods of service delivery, professional roles, and others.

120 Crisis Intervention (3)

Provides theoretical understanding and skill-based training in assessment and intervention strategies that are solution oriented and that may be applied to a variety of crisis situations.

150 Behavior Management I (3)

Prereq: PSY 101 recommended. Examines application of behavioral principles and techniques to various human problems. Emphasis on learning to objectively describe, measure, and analyze behavioral data. Ethical issues in behavior management discussed.

151 Behavior Management II (4)

Prereq: 150. Continuation of 150, exploring additional applications of behavioral techniques in both individual and group settings. Practice provided in contingency contracting and designing token economy.

152 Behavior Management III (4)

Prereq: 151. Continuation of 151 with emphasis on specific behavioral techniques such as progressive relaxation training and biofeedback. Discussion of cognitive methods of behavior change. Course also attempts to integrate use of behavioral techniques with other intervention approaches.

165 Intervention Strategies (4)

Explores theories and current issues in counseling and intervention; also discusses methods for implementing outcomes, as well as values and ethical practice concerns.

170 Group Dynamics I (4)

Prereq: PSY 101 recommended. Explores theories and issues current in group dynamics. Provides exercises to demonstrate applications of various theoretical positions. Also discusses methods for implementing groups and outcome evaluation.

171 Group Dynamics II (3)

Prereq: 170. Continuation of 170 with emphasis on participation in variety of group exercises. Students involved both as participants and group leaders. Critical feedback and evaluation provided through videotaped group sessions.

175 Chemical dependency (3)

Explores the dynamics of substance abuse and chemical dependency, along with treatment models and intervention strategies.

190 Case Management (4)

Introduction to the philosophy, goals, and methods of case management and its roles in the fields of social and protective services, mental retardation/developmental disabilities, mental health, and corrections.

200 Personal Management (3)

Examines management of one's own behavior and positive relationship with others in social context. Emphasis on empathy and understanding through literature and/or other modes of communication.

210 Practicum I (2)

Prereq: perm. Students will participate in 150 hrs of supervised field experience at local agency or institution. Provides opportunity to gain practical training and experience under guidance and supervision of professional agency staff.

211 Practicum Seminar I (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 210.

220 Practicum II (2)

Prereq: 210. Provides additional opportunities to develop helping skills and to practice techniques learned in class. Students may opt for more intensive experiences at same agency as 210 or select another from those participating with HST program. 150 hrs required.

222 Practicum Seminar II (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 220.

250 Practicum III (2)

Prereq: 220. Emphasis of final 150-hr practicum on continued skill development and broadening of experience. Students who have completed 210 and 220 at same agency expected to select another for final practicum.

255 Practicum Seminar III (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 250.

275 Community Resources (3)

Prereq: soph or perm. Topics include basics of program planning; organizing community and local support for programs; researching potential funding sources. Development of grant writing skills including the areas of budget preparation and program evaluation.

290 Special Problems (1-4, max 10)

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interests arise. Additionally, credit may be awarded for advanced practicum experiences. May be repeated.

Indonesian/Malaysian

See Foreign Languages and Literatures.

Industrial Maintenance Technology (IMT)

The following courses for the proposed A.A.S. in industrial maintenance technology are available only on the Lancaster campus:

110 Applied Manufacturing Techniques (3)

Comprehensive study of machine processes used in manufacturing with regard to selection, plant layout, and maintenance requirements. 2 lec, 2 lab.

115 Welding and Fabricating (3)

Welding and fabricating, including use of sheet metal fabricating. Covers gas and electric welding and cutting processes, as well as weld joint preparation and finishing. 1 lec, 4 lab.

117 Metal Machining I (3)

Prereq: 110. Basic operation and capabilities of conventional machine tools commonly used in the repair and maintenance of industrial equipment. 1 lec, 4 lab.

150 Machine Repair I (3)

The study of basic machine components used to build industrial machinery. Topics include gears and gear boxes, drivers, clutches, brakes, chains, couplings, and others. This course includes a hands-on laboratory experience providing the student with the necessary skills to repair or replace these components in various types of machinery.

189 Special Topics (1-3, max 9)

Prereq: 110. Special topics that are current and relevant to the industrial maintenance field. May be repeated.

217 Metal Machining II (3)

Prereq: 117. Study and application of advanced metal machine tool practices, including the programming and operation of computer numerically controlled (CNC) milling equipment. 1 lec, 4 lab.

220 Basic Hydraulics and Pneumatics (4)

Application of hydraulic and pneumatic principles to common industrial control circuits, emphasizing maintenance of hardware and circuitry. 2 lec, 4 lab.

230 Tool Design (4)

Prereq: 117. Basic jig and fixture design. Relation to manufacturing processes, material requirements, gauging and cutting tools, with emphasis on repair and maintenance. 1 lec, 6 lab.

240 Materials and Material Testing (3)

Prereq: 110. Applications of materials used in manufacturing and design, including metals, plastics, ceramics, lubricants, coatings, and testing methods. 2 lec, 2 lab.

250 Machine Repair II (3)

Prereq: 150. Machine repair as it relates to industrial equipment, including replacement of machine components such as bearings, shafts, and other wearing parts. 1 lec, 4 lab.

275 Self-Directed Work Teams (4)

Industrial work teams and the methods used to make them work. Explores use of continuous improvement and project management as they relate to the team concept. Includes field trips to local companies utilizing these methods. 2 lec, 4 lab.

289 Independent Study (1-5, max 5)

Prereq: 110. Study of a particular topic pertinent to the industrial maintenance field under the direction of a faculty member. May be repeated. 1-5 lec, 2-8 lab.

290 Externship (4)

Prereq: 110, 115, 117, 220, 240, 250. Performance of industrial maintenance technician duties in a supervised, unpaid experience, working 20 hours/week with a local company. Efforts are made to rotate experience.

Industrial Technology (IT)

100 Introduction to Industrial Technology (1)

Introduction to career opportunities, job functions, and professional organizations in industrial technology. Discussion of curriculum and departmental procedures. 1 lec.

101 Engineering Graphics Fundamentals (3)

Basic theory and practice in engineering drawing. Topics include: geometric construction, orthographic projection, dimensioning, and auxiliary, section, and pictorial views. Lab activities include free-hand sketching and computer-aided design (CAD) using AutoCAD and SolidEdge software. 2 lec, 3 lab.

102 Engineering Graphics Applications (4)

Prereq: IT 101. Theory and practice of constructing three-dimensional geometric models using computer-aided-design (CAD). Also includes

geometric dimensioning and tolerancing, fasteners, and the integration of graphic documents into the industrial environment. Lab activities include development of note, detail, and assembly drawings. 2 lec, 4 lab.

103 Computer Applications in Industrial Technology (4)

Study of computer hardware and software including operating systems, word-processing, spreadsheet, business graphics, presentation, and Web application software. Lab exercises will stress common applications of software in engineering and technology and use of networks to share data among applications. 3 lec, 2 lab.

104 Architectural Drawing (5)

Prereq: interior design major or perm. Basic drawing techniques used in architectural drawing. Topics include: use of instruments, orthographic and isometric projection, floor plans, interior elevations, and wall sections. 5 lec.

110 Introduction to Manufacturing Processes (4) (2A)

Survey of industrial materials and processes with applications to current manufactured consumer products. Emphasis is placed on generic processes such as forming and separating as applied to a variety of industrial materials. 4 lec.

111 Manufacturing Materials (4)

Survey of industrial materials used in manufacturing, including ferrous, nonferrous, polymeric, wood, elastomers, and composite materials. Analysis of relationships between product requirements and material characteristics. Includes strength of materials, alloying elements, heat treatment, and cold working are related to basic chemical and/or crystalline structure of materials. Lab activities emphasize the selection of materials from vendors, determination of material properties, and comparison of various materials as a choice for design applications. 3 lec, 2 lab.

112 Introduction to Manufacturing (4)

Prereq: 101. Introduction to the workings of a manufacturing enterprise. Includes the study of planning, organizing, and controlling labor, material, equipment and tooling. Lab activities emphasize use of manufacturing documentation and tooling to produce quality products. 2 lec, 4 lab.

117 Basic Metal Machining (4)

Prereq: 101. Study and application of the machining processes used in manufacturing, emphasizing economic impact of design parameters. Includes process planning, machine tool set up and operating procedures, metal cutting parameters, and machine tool capabilities. Also includes precision measurement and introduction to CAD/CAM (computer-aided design/computer-aided manufacturing) and nontraditional machining. Lab activities include analyzing part prints, selecting equipment, and using traditional machine tools to produce parts. (No credit for both 117 and 216.) 2 lec, 4 lab.

201 Computer Graphics (4)

Prereq: 101, advanced standing. Study and application of advanced computer-aided design (CAD) and computer-aided engineering (CAE) systems using parametric modeling principles. Lab activities based upon commercial CAD/CAE software. 2 lec, 4 lab.

205 Geometric Dimensioning and Tolerancing (4)

Prereq: IT 102, (117 or 216), advanced standing. Theory and practice of geometric dimensioning as a precise engineering language to specify part geometry based on the function and relationship of assembled parts. Includes size tolerances, and all geometric characteristics. 4 lec.

206 Computer Methods in Industrial Technology (4)

Prereq: (IT 103 or MIS201 or CS120). IT 112, advanced standing. Study of computer methods used to solve industrial and business problems. Emphasis is on developing solutions using common software. Topics include project management (Project), advanced spreadsheet modeling (Excel) and database implementation (Access). 3 lec, 2 lab.

208 Industrial Plastics (4)

Prereq: 102, 111, 112, (CHEM 121 or 151), advanced standing. Study of plastics materials and manufacturing processes. Includes material properties and applications. Emphasis on major

industrial processes including injection molding, extrusion, and thermoforming. Lab activities include material testing, process set-up and operation, and quality control. 2 lec, 4 lab.

215 Metal Casting (4)

Prereq: 102, 111, 112, advanced standing. Theory and practice of cast metals and foundry processes. Includes pattern design, pattern making, sand analysis, charge metal composition, flow analysis, and foundry-related documentation. Lab activities include sand casting and full mold casting of aluminum. 2 lec, 4 lab.

216 Metal Machining (4)

Prereq: 102, 111, 112, advanced standing. Study and application of machining processes used in manufacturing, emphasizing shop floor management and problem solving. Includes process planning, machine tool set up and operating procedures, metal cutting parameters, and machine tool capabilities. Also includes precision measurement and introduction to computer numerical control (CNC) and nontraditional machining. Lab activities include analyzing part prints, selecting equipment, and using traditional machine tools to produce parts. (No credit for 117 and 216.) 2 lec, 4 lab.

217 Production Metal Machining (4)

Prereq: 206 and 216, advanced standing. Theory and practice of production techniques for metal machining using computer numerical control (CNC), machine tools, and electrical discharge machining (EDM). Includes part print analysis, process analysis and planning, quality assurance factors, and computer-aided design and machining (CAD/CAM). Lab activities include programming CNC turning and machining centers to create molds and mass-produce parts. 2 lec, 4 lab.

218 Metal Fabricating and Casting (4)

Prereq: 102, 111, 112 (CHEM 122 or 152), advanced standing. Theory and practice of sheet metal forming and fabricating, and hot metal casting. Explores the relationship between material properties and processing capabilities. Lab activities emphasize shearing, bending, welding, mechanical fastening, and sand casting. 2 lec, 4 lab.

220 Aircraft Powerplants (4)

Prereq: Aviation management or flight major. Theory of operation of reciprocating engines and gas turbine engines for aircraft. Exposure to thermodynamics of power delivery. Includes fan, jet, shaft, and propeller propulsion machines. Also includes propulsion systems issues such as fuel, lubrication, air supply, and electrical systems. Lab experiences provide investigation of actual hardware and exposure to FAA regulations and engine maintenance considerations. 3 lec, 2 lab.

221 Power Transmission (4)

Prereq: PHYS 201 or 251, advanced standing. Theory and application of physical principles associated with the use of mechanical, hydraulic, pneumatic, and electrical power in manufacturing. Includes gear trains, couplings, clutches, pumps, cylinders, compressors, and electric single and multiphase motors. Lab activities include working with gear systems, internal combustion engines, conveyors, motors, hydraulic and pneumatic systems. 3 lec, 2 lab.

222 Civil Engineering Graphics (3)

Prereq: 101, CE major. Theoretical applications of problems relating to true length lines, angle between a line and a plane, dihedral angles, and true size and shape of planes. Development of practical application drawings in the areas of property layout, road plan and profile, reinforced concrete retaining walls, environmental problems, and layout of water, storm sewer, and sanitary sewer utilities, and road sections. Includes use of computer-aided design (CAD) software. 2 lec, 3 lab.

230 Manufacturing Computer Technology (4)

Prereq: 206, advanced standing. Overview of hardware platforms, operating systems, networks, and applications used in manufacturing. Includes use of computers to support automated production machinery and equipment. Emphasis on designing, planning, developing proposals for, and implementing integrated computer and production systems. Lab demonstrations illustrate the technology components presented in lecture. 3 lec, 2 lab.

231 Manufacturing Database Applications (4)

Prereq: 206, advanced standing. Survey of database types and their applications in manufacturing. Includes principles of database design and implementation. Also includes introduction to e-commerce and the sharing of database information over the Internet. Activities include using Visio to design databases, developing graphical front-ends, and implementing typical manufacturing databases using commercial software. 3 lec, 2 lab.

303 Applications of Object Oriented Programming (4)

Prereq: 206, advanced standing. Introduction to object oriented programming and rapid application development using Visual Basic as programming language. Lab activities emphasize the development of programs for various industrial technology applications, including the use of graphics and integration with other Windows-based programs. 3 lec, 2 lab.

309 Plastics Tooling (4)

Prereq: 208, advanced standing. Study of tooling required for extrusion, injection molding, compression molding, thermo-forming, and other production processes used to produce plastic parts. Lab activities include design and construction of molds for plastic forming. 2 lec, 4 lab.

317 Superabrasive Machining (4)

Prereq: 216, advanced standing. Study and application of industrial diamonds and cubic boron nitride tools for metal machining and grinding. Includes manufacture, identification, and selection of superabrasive tools. Lab activities include tool wear studies and economic analyses. 2 lec, 4 lab.

318 Computer Numerical Control (4)

Prereq: 217, advanced standing. Advanced computer-aided design and computer-aided machining (CAD/CAM) for computer numerical control (CNC) machine tools. Lab activities emphasize mold design and construction on CAD/CAM software. 2 lec, 4 lab.

320 Hydraulics and Pneumatics (4)

Prereq: 221, advanced standing. Application of hydraulic and pneumatic principles to common industrial uses for power transmission and mechanism control. Includes a study of hardware and circuitry. Lab activities include construction and testing of fluid power circuits. 2 lec, 4 lab.

332 Industrial Electronics (4)

Prereq: 221, PHYS 202 or 252, advanced standing. Theory and application of fundamental concepts of DC and AC circuits. Includes measurement of DC and AC electrical parameters and operation of electrical output devices such as transistors, operational amplifiers, AC and DC motors, solenoids, and transformers. Also includes Boolean logic used in digital circuits. Lab experiences include building, testing, and troubleshooting basic AC and DC electrical circuits. 3 lec, 2 lab.

337 Manufacturing Networks and Data Communications (4)

Prereq: 230, 332, advanced standing. Theory and applications of communication technology used in manufacturing plants. Includes study of dedicated device communications, network communication protocols for interconnecting manufacturing equipment and computers, and specialized standards for communicating with controllers and shop floor data acquisitions systems. 3 lec, 2 lab.

347 Plastics Molding Processes (4)

Prereq: 208, 216, (CHEM 121 or 151), advanced standing. (fall) In-depth analysis of selected molding plastics processes including essentials of product/process design and their impact on product quality. Lab activities involve extensive analysis of molding and processes. 2 lec, 4 lab.

348 Plastics Forming and Fabricating (4)

Prereq: IT 208, 216 (CHEM 121 or 151), advanced standing. Advanced study of plastics product manufacturing using extrusion, blow molding, thermo-forming, fabrication, composite, and finishing processes. Includes part and mold/die design, material selection, process optimization, and manufacturing costs. Lab activities include mold building and testing and process optimization. 2 lec, 4 lab.

351 Production Tooling (4)

Prereq: 208, 217, 218, advanced standing. Theory and practice of designing and constructing tooling to improve productivity and quality in various

manufacturing applications. Lab activities include using computer-aided design (CAD) software to design work holding jigs and fixtures. Also includes construction and testing of jigs, fixtures, and gages. 2 lec, 4 lab.

354 Automatic Identification and Data Capture (4)

Prereq: 231 and 337, advanced standing. Study of methods and systems used to automatically identify objects including bar coding, optical character recognition, magnetic stripe, radio frequency identification and biometrics. Various industrial applications are studied, such as inventory, production control, order picking, and shipping/receiving. Lab experiences emphasize application of automatic identification technologies. 3 lec, 2 lab.

361 Product Design (4)

Prereq: 102, 206, (208 or 216), advanced standing. Study of product design from concept to release for production, with emphasis on design for manufacturability. Lab activities include the design, development, and creation of mockups and prototypes. 3 lec, 2 lab.

362 Product Documentation (4)

Prereq: 206 and (208 or 216 or 218), advanced standing. Theory and practice of documenting the objectives and outcomes of a manufacturing company using the international quality standard ISO 9000:2000. Also includes product configuration control and product data management (PDM). 4 lec.

363 Quality Assurance (4)

Prereq: 206, 208, 216, 218, ENG 305J, and MATH 251 or QBA 201, advanced standing. Theory and practice of quality assurance principles in manufacturing. Includes statistical process control, process capability, gage capability, and quality management. 4 lec.

390 Industrial Materials (4)

Prereq: 208, (CHEM 122 or 152), advanced standing. Advanced theory and application of common industrial materials. Includes examination of the behavior of ceramics, polymers, metals, and composites. 4 lec.

395 Industrial Work Experience (1)

Prereq: perm, advanced standing. Credit for work experience related to B.S.I.T. degree. Minimum 10-week term of fulltime employment required. Written report required. May be repeated for maximum of 3 credits.

400 Senior Seminar (1)

Prereq: sr, advanced standing. Discussion of projected employment opportunities, career enhancement activities, and professional development options in industrial technology. 1 lec.

401 Computer-Aided Modeling (4)

Prereq: 101. Study and application of computer-aided design parametric modeling software systems. Lab activities include the development of product models through reverse engineering, model analysis, rapid prototyping and model animation. Data transmission issues are also covered. 2 lec, 4 lab.

405 Dimensional Analysis (4)

Prereq: 205. Study effects of general and geometric dimensioning on the form, fit, and function of an assembly of parts. Emphasis on solving assembly stack-up problems by manual calculation and computer simulation programs to determine clearance or interference between assembled components. 4 lec.

435 Industrial Instrumentation and Controls (4)

Prereq: 303, 332, advanced standing. Theory and application of digital controls in manufacturing. Includes relay logic and closed loop control theory using negative feedback. Introduction to sensors, signal conditioning, circuits, D-A and A-D conversion, and Proportional-Integral-Derivative (PID) control. Lab experiments include programmable logic controllers and control of mechanical, hydraulic, pneumatic and electrical systems. 3 lec, 2 lab.

436 Electronic Applications in Manufacturing (4)

Prereq: 332, advanced standing. Study of practical applications of electronic control systems in manufacturing, including sensors, process control, packaging systems, assembly and material

handling. Emphasis on analysis and improvement of existing applications. Lab activities focus on the integrated control of conveyors, robots, and machines. 3 lec, 2 lab.

452 Contemporary Integrated Manufacturing (4)

Prereq: (351 or 354), advanced standing. Capstone course. Theory and application of current concepts of enterprise-wide computer integrated manufacturing and manufacturing systems. Emphasis on using computers and software to optimize all business technical functions and operations in the manufacturing environment, including product development, enterprise resource planning (ERP), lean manufacturing and supply chain management (SCM). Product development lab activities include producing mockups, prototypes, and documentation for products to be manufactured in IT 462. IT 452 and 462 must be taken as a two quarter sequence. 3 lec, 2 lab.

462 Product Manufacturing (5)

Prereq: 363, 452, advanced standing. Capstone course requiring student teams to use knowledge from previous technical and business courses to develop a manufacturing plan for a product. Includes production planning and control, resource planning, product cost considerations, facilities planning, and tooling design and construction. Lab activities include the implementation of the above plan including tool build, plant layout, and actual production of parts and product. IT 452 and 462 must be taken as a two quarter sequence. 2 lec, 6 lab.

464 Robotic Applications (4)

Prereq: 332, advanced standing. Theory and application of robots used in manufacturing. Includes classifications, sensors and feedback mechanisms, robot/computer communications, and programming. Also includes selection of robots based on task and economic criteria. Lab activities include on- and off-line programming of robots and developing robotic work cells. 3 lec, 2 lab.

483 Industrial Safety (3)

Prereq: 217, advanced standing. Study of organized industrial safety programs, including historical and social perspectives. 3 lec.

484 Maintenance Systems (4)

Prereq: 320 or 332, advanced standing. Study of organized industrial maintenance systems. Includes environmental control, structural, mechanical, and electrical requirements. 4 lec.

490 Special Investigations (1-4)

Prereq: perm, advanced standing. Independent concentrated study in a specific area under the direction of a faculty member.

491 Special Topics in Industrial Technology (1-5)

Prereq: perm, advanced standing. Selected topics that are current and relevant to industrial technology. May be repeated.

Interdisciplinary Arts (IART)

Offerings include courses in introduction to fine arts and history courses in individual content areas.

IART 117 and 118 are provided for majors in the College of Fine Arts who wish to study the relationship of all the arts, and for all students in the University who wish to select courses with the basic purpose of understanding their cultural heritage.

These courses fulfill:

- 1 Tier II requirements for majors in the College of Fine Arts.
- 2 Tier II requirements for students in other degree colleges and for transfer students from other universities; and
- 3 State requirements for licensure in the College of Education.

117 Introduction to the Arts (4) (2H)

Designed to develop and increase understanding of the relationship of the arts and society through an examination of subject, matter, form, and content in each art by means of a critical method of analysis. A variety of visual and performing arts

are covered. Opportunities for participation with the arts through lectures, technical demonstrations, campus field trips, and small-group discussions.

118 Introduction to the Arts (4) (2H)
Designed to develop and increase understanding of the relationship of the arts and the human spirit through an examination of subject, matter, form, and content in each art by means of a critical method of analysis. A variety of visual and performing arts are covered. Opportunities for participation with the arts through lectures, technical demonstrations, campus field trips, and small-group discussions.

150 Viewing Performance (2)
Integrates classroom and student life activities at the University by combining the productions of the Schools of Music, Dance, and Theater with a seminar course dealing with characteristics and artistic concerns of each medium. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for DANC 150, MUS 150, or THAR 150.

211 History of Art (4) (2H)
Survey of Western painting, sculpture, and architecture from prehistoric to early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 211.

212 History of Art (4) (2H)
Continuation of 211 from early Christian period of Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 212.

213 History of Art (4) (2H)
Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 213.

270 Theater History I (4) (2H)
Development of theater and drama in prehistoric, Greek, and Roman periods. No credit to those with credit for THAR 270.

271 Theater History II (4) (2H)
Development of theater and drama in Medieval and Renaissance periods. No credit to those with credit for THAR 271.

272 Theater History III (4) (2H)
Development of theater and drama from Renaissance to modern. No credit to those with credit for THAR 272.

320X Fine Arts—Florence (1-6)
Prereq: enrollment in OU Italy Program. (spring)
Study of fine arts as seen and performed in city of Florence. Churches, museums, and galleries, along with theatrical and musical events, provide examples for study.

321 History and Literature of Music (3)
Prereq: MUS 103. R. Wetzel. History of music with survey of musical literature to 1450. No credit to those with credit for MUS 321.

322 History and Literature of Music (3)
Prereq: 321 or MUS 321. R. Wetzel. History of music with survey of musical literature, 1450–1720. No credit to those with credit for MUS 322.

323 History and Literature of Music (3)
Prereq: 322 or MUS 322. R. Wetzel. History of music with survey of musical literature, 1720 to present. No credit to those with credit for MUS 323.

360J Writing in the Arts (4) (1J)
Prereq: 117, 118; major in fine arts; or perm.
Critical analyses of form, media, and content in fine arts stressing instruction in critical writing.

400 Senior Seminar: Comparative Arts (3)
Prereq: fine arts sr or perm. Designed to increase insight of art majors into all fine arts. Specifically, to understand similarities and differences which exist among several arts through consideration of basic aesthetic concerns.

419 Great Masterworks (4)
Life, times, and works of at least two major artists within specified cultural period.

470 Tragedy (4)
Study of tragic genre through study of plays and critical and theoretical documents. No credit to those with credit for THAR 470.

471 Comedy (4)
Study of comic genre through examination of plays and critical and theoretical documents. No credit to those with credit for THAR 471.

472 Forms of Drama (4)
Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents. No credit to those with credit for THAR 472.

481 Individual Problems (1-6)
Prereq: perm.

International Studies (INST)

The following courses are available through the Center for International Studies. Four are interdisciplinary courses focusing on Africa (113), Asia (103), Europe (118), and Latin America (121). These courses, which provide an introduction to the regions, satisfy social science requirements, University General Education Tier II (Cross-Cultural Perspectives) requirements, as well as major and certificate requirements.* In addition, 80 faculty members in various departments on campus teach more than 150 courses each year that relate to Africa, Asia, Latin America, and Europe.

103 Modern Asia (5) (2C)
Introduction to history, cultures, and current problems of civilizations of Asia. Interdisciplinary survey dealing with China, Japan, India, and Southeast Asia (Burma, Thailand, Vietnam, Cambodia, Laos, Malaysia, Singapore, Indonesia, and the Philippines).

113 Modern Africa (4) (2C)
Interdisciplinary introductory survey of Africa, its culture, history, and modern development. Disciplines include: anthropology, art, dance, economics, education, geography, history, linguistics, literature, and political science.

118 European Studies (4) (2S)
An interdisciplinary introduction to Europe and European Studies through discussion of selected topics from perspectives of geography, history, politics, sociology, economics, literature, and the arts. Special emphasis is given to post-Cold War issues, problems, and developments.

121 Interdisciplinary Survey of Latin America (4) (2C)
Introduction to Latin America through geography, politics, sociology, economics, literature, and art. Special emphasis given to 20th Century issues, problems, and developments.

350 Focus on Malaysia (5)
Introduction to geographical, historical, demographic, cultural, and political settings of Malaysia within the wider context of Southeast Asia. A survey of the historical development of Malaysia with emphasis on the period from the Second World War.

490 Tun Razak Seminar: Southeast Asia Studies (5)
The Tun Razak Seminar is designed to enable the holder of the Tun Abdul Razak Chair to present his or her particular specialization. This means the content of the course could be different from year to year, depending on the discipline of the holder. The focus of the course will be on Malaysia as well as other parts of Southeast Asia.

495 Internship (1-15)
This course is designed to allow for a practical experience in an international organization or corporation in the U.S. or abroad to complement the theoretical base supplied in area studies and comparative cultures courses. The applied experience will allow you to see the practical way in which cross cultural issues and second language usage are manifested in a work environment. The internship experience will also allow you to

identify personal learning goals that will enhance your career prospects.

*For degree requirements, see "International Studies" in the College of Arts and Sciences section.

Italian

See Foreign Languages and Literatures.

Japanese

See Foreign Languages and Literatures.

Journalism (JOUR)

101 Journalism and Society (4)
An overview of the nature, purposes, and influence of journalistic work within its social, political, economic, historical, and international contexts. No credit if JOUR 105 or TCOM 105 taken.

105 Introduction to Mass Communication (4) (2S)
All forms of mass communication, including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities. No credit if JOUR 101 or TCOM 105 taken.

133 Precision Language for Journalists (4)
Intensive drill in grammar, punctuation, syntax, and usage in contexts designed especially for future journalists. Extensive attention to media examples. Diagnostic tests during first week place each student to work at own level, whether basic to prepare for beginning courses or more advanced for those who already show considerable ability but would like to sharpen language skills for advanced courses. No credit if 133A. Either 133 or 133A satisfies journalism core requirement.

133A Precision Language for Journalists (4)
Same as 133 except reserved for majors. No credit if taking 133. Either 133 or 133A satisfies journalism core requirement.

189 Journalism Workshop (1-4)
Workshop on selected topics of journalism and mass communication. May be repeated to total 6 hrs of credit.

221 Graphics of Communication (5)
Creative and practical aspects of typography, layout, and design of printed communication.

231 News Writing (4)
Prereq: C or better in 133 or 133A. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy. No credit if 231A. Either 231 or 231A satisfies journalism core requirement.

231A News Writing (4)
Same as 231, including same prereqs, except reserved for majors. No credit if 231. Either 231 or 231A satisfies journalism core requirement.

233 Information Gathering (3)
Prereq: C or better in 133 or 133A. Gathering of information by journalists and other mass communicators from various sources, such as interviewing, use of libraries, government documents, computerized data bases, syndicated research, and business documents. Prepares communicators to conduct research and to assess and use material in media-related decision making.

250 Advertising Principles (4)
Major factors in development of advertising programs.

270 Introduction to Public Relations (3)
Prereq: soph. Provides an overview of public relations, its history, development, practice, and application. Looks at the process of public relations, including the planning, implementation, and evaluation of public relations campaigns. Surveys techniques, strategies, and tactics used by public relations practitioners. Analysis of case studies.

311 History of American Journalism (4)
Prereq: 233. Development of newspaper, magazine, and broadcast journalism from colonial period to present. Social, political, economic, and mechanical aspects.

314 Fundamentals of Online Journalism (4)

Prereq: 221, 231, 233, or perm. Selecting, editing, writing, and formatting content for Web-based media. Evaluating and criticizing online journalistic practices.

321 Print Advertising and Layout (4)

Prereq: 221, 231 or 231A, 250. See title.

331 Reporting Contemporary Issues (3)

Prereq: 231 or 231A. Research, reading, and speech reporting on current social problems. Emphasis on analytical skills and ability to report in depth for mass audience.

332 Reporting Practice (2)

Prereq: 231 or 231A, perm. Students develop news stories in city and sports reporting, along with features.

333 News Editing (4)

Prereq: 221, C or better in 231 or 231A. Copyreading, headline writing, news selection, and layout of news pages.

334 Editing Practice (2)

Prereq: 333, perm. Copyreading, handling of local correspondence, wire copy, and working out make-up problems.

340 Advertising Strategies (4)

Prereq: 233, 250. A case analysis approach to discover techniques for solving advertising problems.

350 Radio Broadcast News (4)

Prereq: 231 or 231A and 233. Intensive writing and reporting skills development for radio news broadcast.

352 TV Broadcast News (4)

Prereq: 350. Intensive writing and reporting skills development for television news.

353 Broadcast News Practice (2)

Prereq: 350. Preparation of news for broadcast. Students serve as assistants in newsroom of University's broadcasting stations or, by special arrangement and perm, in other stations.

362 Community Newspapers (3)

Prereq: 333 or perm. Editorial and business practices of suburban weeklies and dailies.

363 Reviewing and Criticism (3)

Prereq: 231 or 231A and major, or perm. Written criticism of fine and popular arts. Special role of critic who serves both as reporter and evaluator of artistic works for lay audience.

370 Media Relations and Publicity (4)

Prereq: C or better 221, 270, 333. Focus on publicity function of public relations and on skills in both public relations writing and media contact.

375 Advertising Media Planning and Buying (4)

Prereq: 250, 340. Strategy, techniques, and problems of planning and buying media. Learning to buy space and time effectively and economically. Learning use of syndicated sources of media information.

407 Electronic Publishing (4)

Prereq: 221, 231 or 231A. Introduction to the production, design, and techniques of electronic publishing using a journalistic approach. Explores many software packages for electronic publishing using Macintosh computers and provides experiences to develop a thorough knowledge of electronic publishing.

411 Communication Law (3)

Prereq: C or better in 231 or 231A and 233, or perm. Principles and case studies in communication law, constitutional guarantees, libel, privacy, contempt, privilege, copyright, and government regulatory agencies.

412 Ethics, Mass Media, and Society (3)

Prereq: sr., C or better in 411 or perm. Social responsibility of journalistic or other mass communicator. Professional codes, responsibility of media for social change, reaction to political and economic pressures.

415 Online Journalism Practice (3)

Prereq: 314 or perm. Development and production of a news site incorporating audio, video, and text formats. Stress on newsgathering and presentation

skills in an online media environment. Repeat with perm. Max 6 hours.

416 Seminar in Online Journalism (3)

Prereq: 314, 333. Introduction to ethical, theoretical, and societal issues of the Internet and online journalism. Digital divide and diversity, social impact of the Internet, and communicators' new roles in a globally networked society.

418 Web Editing and Management (3)

Prereq: 314. A problem-solving approach to creation and management of interactive features; evaluating effectiveness of Web sites; strategies and problems of site development

419 Legal Issues of Online Journalism (3)

Prereq: 314. Legal issues as they apply to online journalism.

430 Magazine Editing and Production (4)

Prereq: 221, 233. Theory and techniques of magazine editing and production, including analysis of magazine industry and of specific magazines and audiences they serve. Editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and distribution. Magazine project required

431 Magazine Production Practice (3)

Prereq: 430, 441. Practice course on E.W. Scripps School of Journalism's quarterly lab magazine. Each student assigned specific responsibilities in magazine editing, production, advertising, and circulation

432 Specialized Business Magazines (4)

Prereq: 233 or perm. In-depth study of professional, business, industrial, and technical magazines. Consideration of all types of publishing problems, usually as case studies.

435 Advanced Editing (3)

Prereq: 333. Edit content on deadline for *Athens* and its affiliated publications. Work with professional copy editors across the state to broaden perspectives on the craft of news editing

441J Magazine Feature Writing (4) (1J)

Prereq: 231 or 231A, 233 or perm. Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles, and surveying markets.

442 Advanced Magazine Feature Writing (3)

Prereq: 441. Writing and marketing magazine articles. Emphasis on specialized markets.

450 Advertising Copy Writing (3)

Prereq: 221, 231 or 231A, 250. Effective persuasion in advertising media.

452 Broadcast News Producing (4)

Prereq: 352. Principles and practices of radio and television news production. Emphasis on blending news judgment with production techniques and tools.

455 Seminar in Broadcast News (3)

Prereq: 350, 352. Discussion of problems—operational, social, economic, legal, and ethical—faced by broadcasters reporting public affairs.

458 TV News Practicum (4)

Prereq: 352. Practicum in preparation and presentation of TV newscast. Students select news material, including video, format, and script for newscast, then deliver on air. Students will rotate through various newsroom positions during quarter.

459 Advanced TV News Practicum (3)

Prereq: 452, 458. Advanced practicum in preparation and presentation of TV newscast. Students involved in selecting, editing, scripting, and formatting for on-air newscasts. Students also appear on air and assume management responsibilities.

461 Specialized Journalism (3)

Prereq: sr and perm. Seminar approach to individual study of journalistic areas of special interest to individual students.

464 Reporting of Public Affairs (3)

Prereq: 231 or 231A, sr, major, or perm. Problems of preparing in-depth, interpretive, and analytical reports on public affairs for mass media, with practice in writing such reports. Focus mostly on contemporary issues.

465 The Editorial Page (3)

Prereq: 333, sr, major, or perm. Problems of content, selection, and presentation of opinion on editorial page. Extensive writing of analytical and persuasive editorials and in-depth interpretive articles.

466 International Mass Media (4)

Prereq: sr. Development and operations of world mass communication channels and agencies. Comparative analysis of media, media practices, and flow of news throughout world. Relation of communication practices to international affairs and understanding.

467 Foreign Correspondence (4)

Prereq: 231 or 231A, or perm. Role of foreign correspondent in news gathering. History, scope, techniques.

468 Column Writing (3)

Prereq: 231 or 231A. The study of newspaper columnists, past and present, with extensive writing of various kinds of columns.

470 Sportswriting (3)

Prereq: 231 or 231A. A look at sportswriting from lead to 30—the good, the bad, and the ugly of life in a sports press box.

471 Public Relations Principles (4)

Prereq: 370, sr, and PR major or perm. Using contemporary case studies, all aspects of public relations are studied and analyzed in group discussions and written projects. Heavy emphasis on participation in class discussions.

472 Advanced Public Relations (4)

Prereq: 471 or perm. Planning public relations programs and projects, including selection of audiences, messages, and media, and evaluation of effects. Project in area of student's interest.

475 Advanced Advertising Media Planning and Buying (4)

Prereq: 250, 375, jr. Media theories appropriate in specific client advertising situations. Use of computer software for solving media problems. Review, creation, and testing of quantitative and qualitative media models, advanced work in media objectives, strategy, tests, and execution of media plans and evaluation.

476 Advertising Research (4)

Prereq: 233, 250. Original research in advertising, research methods and procedures, and syndicated/secondary research.

477 Promotional Media (4)

Prereq: 375. Overview and professional projects concerning media sales and promotion management. Development of sales promotion plan and professional advertising sales presentations.

479 Computer Assisted Reporting (3)

Prereq: 233, 331 or 464. Advanced class designed to introduce fundamentals of computer assisted reporting, specifically using database analysis.

481 Newspaper Management (3)

Prereq: 333. Problems in publishing affecting all departments.

482 Advertising Management (4)

Prereq: 340 and additional 8 advertising hrs. See title.

484 Supervising School Publications (4)

Prereq: 12 hrs or perm. Conference course for prospective advisors of school newspapers, yearbooks, magazines, and other publications. Purposes and functions, legal aspects, staff selection, content, copy, layout, production, printing, advertising, photography, business.

485 Journalism in the Secondary School Curriculum (4)

Prereq: 9 hrs of journalism. Intensive study and analysis of appropriate content for high school journalism courses. Planning course outlines and curricula.

486 Advertising Campaigns (5)

Prereq: 375, 450, and 8 additional advertising hrs. Capstone course in advertising sequence to provide thorough understanding of basic elements of advertising campaigns. Includes creation of campaign.

488 Humor Writing for Print, Broadcast (3)
Prereq: jr or sr, perm. Theory and techniques of writing humor for newspapers, magazines, speeches, and other media.

489 Journalism Workshop (1-4)
Selected topics of journalism and mass communication, including newspapers, yearbooks, advertising, magazines, photojournalism, public relations, and publications advising. May be repeated to total 10 hrs of credit.

490 Independent Study (1-4, max 15)
Prereq: written proposal and perm. See title.

491 Research in Journalism and Communications (1-15)
Prereq: perm.

492 Seminar (1-5)
Prereq: perm. Selected topics of current significance. May be repeated with different topics to 12 hrs credit.

Latin

See Foreign Languages and Literatures.

Latin American Studies

See International Studies.

Law Enforcement Technology (LET)

The following courses for the A.A.S. in law enforcement technology are available on the Chillicothe, Lancaster, and Southern campuses:

100 Introduction to Law Enforcement Technology (3)

Philosophy and history of law enforcement; overview of crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; survey of professional career opportunities and qualifications required.

105 Ethics and Legal Issues (4)

Provides a fundamental base of knowledge concerning contemporary law enforcement ethical and legal issues such as use of force, corruption, professional behavior, code of ethics, ethical dilemmas, and historical cases of ethical misconduct.

110 Police Role in Crime and Delinquency (3)

Extent and distribution of crime and delinquency, with special emphasis on basic factors and conditions contributing to problem; some case study and evaluation of community resources in prevention field and detailed review of role of school, family, religious institutions, law enforcement agencies, courts, and correctional institutions. Part law enforcement agencies play in juvenile delinquency control, organization and functions of related juvenile agencies, laws governing handling of juvenile offenders, and brief resume of juvenile court and its jurisdiction.

120 Constitution, Criminal, and Civil Law (3)

Prereq: 100. Study of U.S. Constitution and amendments thereto by text material and case method system; major emphasis on freedom of speech, search and seizure, arrest and detention, interrogation and confession, self-incrimination, right to counsel, double jeopardy, and due process situations.

130 Interviewing and Report Writing (3)

Examination of interviewing and interrogation procedures employed by law enforcement for obtaining information, plus practical experience in use of methods. Mechanics of writing reports, including collecting information and taking statements, writing descriptive narratives, and report revision.

140 Introduction to Criminalistics (3)
Survey of systematic collection of evidence and potentialities with recommendations of applied science to criminal investigation. Includes demonstration of techniques used in processing criminal evidence and practical experience in selected crime lab methods.

145 Introduction to Forensic Science (4)

Survey of the systematic collection of evidence and potentialities with recommendations from applied science regarding criminal investigation. Includes demonstration of techniques used in processing criminal evidence and practical experience in selected crime scene processing, crime lab methods, and forensic science. Students with little or no previous laboratory experience, will receive an overview of actual laboratory analyses performed on physical evidence as if submitted to a crime laboratory. The student will acquire knowledge through conducting experiments regarding best practices of a crime laboratory. The student will discover the importance of maintaining the integrity of physical evidence, quantities required to conduct analyses, and how to prepare physical evidence for court presentation. Credit not allowed for both 140 and 145. 3 lec., 2 lab.

150 Police Patrol Operations (3)

Focus on patrol function. Examination of purposes, methods, techniques, and types of patrol. Overview of support services, examination of various police services and public assistance, and analysis of deployment procedures and practices as related to overall mission of police patrol.

200 Procedures, Rules, and Test of Evidence (4)

Prereq: 120 or perm. Instruction designed to acquaint officer with court system in Ohio, its functions, authority, and duties. Explains workings of all courts of record and provides description of mayor's courts which are only courts not of record in State of Ohio. Kinds and degrees of evidence. Admissibility of evidence in criminal court cases, materiality and competency of evidence. Distinction between admissions and confessions; exceptions to hearsay rule; types of evidence.

210 Cybernetics (3)

Application and use of computers and/or automated systems for rapid storage and retrieval of information. Types of electronic data processing systems and their compatibility with contemporary police operations explored.

215 Cybernetics and Principles of Information Competency (4)

Examination of the application and use of computers and/or automated systems for rapid storage and retrieval of information. Students will explore the types of electronic data processing systems and their compatibility with contemporary police operations. Students are introduced to the five Information Competency Principles to develop the skills necessary to achieve information competency. Students will apply information competency to criminal justice research developing skills through library research, practice in MLA and APA documentation. Credit not allowed for both 210 and 215. 3 lec. 2 lab.

220 Court Procedures and Processes (3)

Case preparation, officer testimony and demeanor in court, effective preparation and presentation of criminal evidence, trial procedures, utilization of written notes, and reaction to cross examination.

230 Police Community Relations (3)

Nature of relationships between police and various segments of community; racial and/or ethnic minorities, news media, clergy, and youth explored. Historical reasons for present dilemma and suggested changes to alleviate these problems.

240 Law Enforcement, Administration, and Supervision (3)

Prereq: 100. Principles of law enforcement agency administration. Organization, planning and research, management, personnel management, training, and public relations. Administrative functions in vice control, crime delinquency prevention and control, patrol, investigation, communications, statistics, and records.

245 Law Enforcement, Administration, and Leadership (4)

Prereq: 100. Examination of the principles of law enforcement agency administration. Organization, planning and management, personnel management, training, and public relations represent a partial list of administrative topics covered. Administrative functions covered include, patrol, investigation, communications, statistics, and records. The role leadership plays in a contemporary law enforcement organization. Police promotional assessments and how to perform to your maximum potential. Credit not allowed for both 240 and 245.

250 Vice and Narcotic Control (3)

Prereq: 140. Exploration of history, identification, and effects of narcotics. Narcotic and vice problem as it exists and penal statutes affecting control of narcotics and vice studied.

255 Criminal Justice Research Methods (4)

Introduction to criminal justice research methodology, emphasizing the development of practical reasoning skills necessary for the comprehension and critical evaluation of criminal justice statistical information. The student will develop knowledge of Internet surveys, research ethics, research methodology and design, and data analysis.

260 Criminal Investigation (3)

Fundamentals of investigation; crime scene search and recording; correction and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up, and case preparation. 3 lec, 2 lab.

265 Introduction to Criminal Investigation

The purpose of this course is to provide law enforcement students an introduction to the fundamentals of criminal investigation; crime scene search and recording; collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, case preparation and management. Students with little or no previous laboratory experience, will receive an overview of actual laboratory analyses performed on physical evidence as if collected at the crime scene for submission to a crime laboratory. Credit not allowed for both 260 and 265. 3 lec. And 2 lab.

270 Arrest, Search, and Seizure (3)

Prereq: 200. In-depth discussion of moral and legal obligations in use of police weapons. Includes legal provisions, safety precautions, and restrictions in use of firearms. Advanced theories and application, police combat shooting, all-weather firing, and new developments in police weaponry. Training for student in lawful methods of search and seizure and discussion of search of persons, places, and things, with emphasis on legality. Applicable court decisions and rulings presented and discussed. 3 lec, 2 lab.

275 Law Enforcement and the Deaf (4)

Problems involved in working with a deaf suspect/victim. Includes different types of deaf, different sign languages, problems in communication, cultural aspects, and protecting individual rights and the officer's case. Covers ADA requirements for law enforcement, courts, and attorneys.

276 Legal Rights of Hearing Impaired (4)

Up-to-date legislation involving hearing impaired/deaf citizens.

280 Traffic Enforcement, Education, and Engineering (3)

Prereq: 100. Law relating to registration of motor vehicles, driver's license, Vehicle Code sections most often encountered and violated, regulation and traffic control, traffic accident investigation, traffic accident report forms; types and uses.

290 Special Problems (3)

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interest arises.

Library Science

See Education—Curriculum and Instruction.

Linguistics (LING)

270 The Nature of Language (5) (25)

Nontechnical introduction to the basic nature of human language: its sound patterns, structure of words and sentences, nature of meaning, children's acquisition of language, animal communication, ways languages change, etc.

275 Introduction to Language and Culture (4)

Prereq: soph or above. Study of similarities and differences of language behavior in variety of cultural contexts.

280 Language in America (4)

Prereq: soph or above. Analysis of similarities

and differences in language behavior in America, including dialects and immigrant languages

330 Introduction to Psycholinguistics (4)
Prereq: 270 or 350 or 351 (or concurrent) or perm. Study of linguistic behavior and psychological mechanisms responsible for it.

350 Introduction to Linguistics (5)
Prereq: jr or sr; credit not given for both 270 and 350. Technical introduction to linguistic principles and methods of description in the areas of phonetics, phonology, morphology, syntax, and semantics.

351 Fundamentals of Linguistics (5)
Prereq: 270 or HSL 208, credit not given for both 350 and 351. General course in fundamental linguistic principles; duality of patterning, phonetics/phonology, syntax/semantics; morphology.

360 Sounds of World Languages (4)
Prereq: 270 or 351 or HSL 208 or SP 437 or FR 437. Articulatory and acoustic description of English and other languages of the world through work with native speakers.

390 Language of Women and Men (4)
Prereq: jr or perm. American speech as used by women and men in terms of linguistic and social factors

395 Introduction to Area Linguistics (3-5)
Prereq: perm. Investigation of linguistic characteristics of specific group or subgroup of languages within Malayo-Polynesian or African families.

410 Language Teaching Practicum (3)
Prereq: 475 and 480. Practice in the teaching of English as a second or foreign language with faculty supervision.

412 Internship in TESOL (1-5)
Prereq: perm. Practice in ESL teaching, instructional support, and/or program administration.

440 Introduction to Bilingualism (4)
Prereq: 270 or 350 or 351 (or concurrent) or perm. Introduction to bilingual theories from psychological, sociological, educational, and linguistic perspectives.

451 Computers for Language Teaching I (4)
Prereq: 270 or 350 or 351 (or concurrent) or perm. Introduction to uses of computers for language teaching, software selection, and creation of supplementary computer-assisted language learning (CALL) materials.

452 Computers for Language Teaching II (4)
Prereq: 451 and 480 or ML 445 or perm. Creation of CALL materials using authoring packages, authoring languages, or programming languages.

453 Computers for Language Teaching III (4)
Prereq: 452. Developing a comprehensive CALL package.

460 Phonology (5)
Prereq: 270 or 350 or 351 (or concurrent) or perm. Introductory course in analysis of sound systems of natural languages.

470 Syntax (4)
Prereq: 270 or 350 or 351. Introduction to theory and application of grammatical analysis of natural languages.

475 Theories of Language Learning (4)
Prereq: 270 or 350 or 351 or concurrent. Introduction to research in second language acquisition and its implications for language teaching methodology.

480 TEFL Theory and Methodology (4)
Prereq: 475 or concurrent. Second language teaching theory and methodology, with emphasis on teaching English as foreign language.

481 Methods and Materials in TESL (4)
Prereq: 475 or concurrent. Introduction to methods, techniques, and materials useful in the teaching of English in second language contexts and specifically in the public schools.

482 Materials in TEFL (4)
Prereq: 480 or concurrent. Theory and practice of analysis, evaluation, and creation of instructional materials for teaching English as a foreign language.

483 Testing in TESL (4)
Prereq: 480 or 481 or concurrent or perm. Evaluation and writing of language test items appropriate for measuring global competency and competency in specific skill areas. Entry and exit testing for public school ESL programs also discussed.

485 Historical Linguistics (4)
Prereq: 460. Study of genealogical classification of languages, and of historical change in language systems.

490 Sociolinguistics I (4)
Prereq: 270 or 350 or 351. Observation and analysis of similarities and differences of language behavior in variety of linguistic and sociocultural contexts.

491 Sociolinguistics II (4)
Prereq: 490. Introduction to relationships between interlocking systems of language and social grouping.

495 Directed Research (4)
Prereq: perm. Independently directed project on a particular topic of interest in linguistics, required of all majors. 2 credits in winter, 2 credits in spring.

496 Field Methods (4)
Prereq: 460 and 470. Methods of eliciting, transcribing, organizing, and analyzing linguistic data.

499 Special Studies in Linguistics (1-3)
Prereq: perm. Independent study of particular area of interest in linguistics.

Malaysian

See Foreign Languages and Literatures.

Management (MGT)

100 Managing (2)
Introduces the basic concepts of management and the basic functioning of business. In addition, students develop an understanding of current issues confronting managers in business and nonprofit organizations. Emphasis on starting to develop the skill to reason like a manager.

191 Workshop in Management (1-4)
Provides traditional and nontraditional students with specialized course offerings directed toward identified needs. Facilitates offering short courses, workshops, and institutes involving intensified instruction in pertinent management areas.

202 Management (4)
Prereq: soph. Understanding of and practice in solving problems facing managers and administrators using concepts and principles from behavioral sciences and other applicable disciplines.

240 Introduction to Management and Organization (4)
Prereq: soph; College of Business majors only. Provides an introductory coverage of topics in management. The course offers an early focus on teamwork and group dynamics to assist students when they take the integrated cluster. The course also includes specific assignments designed to enhance COB majors' Electronic Student Portfolios. No credit for both 240 and 202.

298 Internship (1)
Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

340 Organizational Behavior (4)
Prereq: jr. Examines the behavior of individuals and groups in organizations. Focus on high performance and satisfaction in the modern workplace, and in context of cultural diversity, globalization, ethical behavior, and social responsibility. Designed to enhance career readiness in management and team leadership.

345 Organizational Behavior—Macro Perspective (4)
Prereq: jr. Organizational theory and behavior emphasizing formal organizational theory and work group behavior. Concentrates on interaction between organization, its environment and its members, and influences of informal work groups on member behavior.

350 Creativity and Innovation Management (4)
Prereq: jr. Examination of the role of creativity and innovation in business with a particular focus on the management of the innovation process. Students will explore personal creativity, management practices that enhance or suppress creativity, the relationship between creativity and innovation, and the process of innovation in a business setting.

398 Internship (1-4)
Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

430 Management Systems—Decision Making (4)
Prereq: 202 or 240 or perm. Decision making and problem solving in organizations from managerial perspective.

462 Women in Management (4)
Prereq: junior. This course explores a variety of social-psychological research on gender issues that affect work behaviors in today's rapidly changing workforce. Emphasis is placed on student activities, research of pertinent topics, readings, reports, online dialogue, and incorporates community service learning.

480 Managing Transformations and Organizational Change (4)
Prereq: 340. Examines theories, concepts, and applications relating to change leadership in the modern workplace. Focus on internal processes of organizational transformation, change, and development. Designed to improve leadership potential through understanding change models and strategies, resistance to change and change leadership roles in the context of a dynamic, uncertain, and ever-changing external environment.

484 International Comparative Management (4)
Prereq: sr. Survey and analysis of similarities and differences in management systems, processes, and styles, as well as evaluation of changes and their impact in selected groups of countries.

486 Business World of Asia (4)
Prereq: 202 or 240 or sr or perm. Examines the current business environment of Asia from the perspective of contemporary history, culture, religion, political economy, geography, and current events. Emphasis is given to developing awareness of global information resources on prospects for active business involvement in Asia. Students are encouraged to develop special expertise in one of the Asian countries, to network with one another for broader understanding, and to pursue in-depth areas of special personal interest.

490 Strategic Business Leadership (4)
Prereq: MGT 340, MGT 350, and sr. Examination of the leadership theories in the context of the strategic business challenges of increased global competition, advances in technology, and the importance of intellectual capital. The focus is on the executive ability to make strategic choices that generate superior performance within and by organizations. Tier III equivalent course.

491 Seminar (3-5)
Prereq: jr or perm. Selected topics of current interest in management and organizational behavior area.

492 Management Thought (4)
Prereq: sr. Review of development of managerial theories from 5000 B.C. to present with consideration of their application to current organizational settings.

494 Management Research (4)
Prereq: 12 hrs of management courses. Practical application of research methods in behavioral sciences to management problems, emphasizing research available and its use in decision making and in solving managerial problems.

497 Independent Research (1-4)
Prereq: perm. Research in selected fields of management and organizational behavior under direction of faculty member.

497H Independent Research (1-4)
Prereq: 3.3 g.p.a., written proposal, and perm. Independent research. Course content selected by professor and student.

498 Internship (1-4)

Prereq: perm.

499 Strategic Business Leadership Portfolio (1)

Prereq: MGT 340, 350, 480, and 490 or concurrent. Formalizes in an electronic portfolio a comprehensive demonstration and self-assessment of the student's career readiness for strategic business leadership. Involves a formal portfolio defense. A "CR" must be received in this course to graduate with a major in Management and Strategic Leadership.

Management Information Systems (MIS)

101 Introduction to Microcomputers (3)

Introduces student to computer concepts within the framework of business applications. Students do computer assignments including word processing, spreadsheet analysis, presentation software, and web pages. No credit for both 101 and CS 120.

201B Introduction to Information Analysis and Design (4)

This course introduces students to the systems development life cycle in the context of preparing effective information designs to help solve business problems. Students critically analyze business problems and develop high quality information designs that inform and support management decisions using personal computer software tools.

202 Business Information Systems (4)

Prereq: 201 or 201B, and COB. Addresses issues that arise in dealing with management information as a business resource. As an introduction to the field of management information systems, topics covered deal with computer technologies, information development, and impact of information systems on business organizations at a variety of levels, from personal information systems to organization information architectures. Major attention is given to the implications of information systems for achieving competitive advantage.

220 Introduction to Business File Processing (4)

Prereq: 201 or 201B and COB. Students learn to write programs in a GUI environment to solve business problems. Structured programming is emphasized.

225 Prototyping and Fourth Generation Languages (4)

Prereq: 220 Students will learn how to write business applications using fourth generation languages to process data in an object-oriented environment.

230 Advanced Microcomputer Spreadsheet Applications (4)

Prereq: 101 or 201 or CS 120 or CTCH 125 or BMT 200 or HS 309 or IT 103. Advanced functions of spreadsheet programs will be examined. Groups of spreadsheet applications will be integrated to create systems designed to support common business functions.

235 Advanced Microcomputer Data Base Applications (4)

Prereq: 101 or 201 or BMT 200 or CTCH 125 or CS 120 or HS 309 or IT 103. Relational data base software will be used to create integrated data storage and retrieval systems. These systems will be used to solve business problems.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

320 Business Systems I (4)

Prereq: 220 Coreq: MIS 380, and COB. First of a two-part series related to the development of computer information systems in business. This course looks at the planning and management of information systems development projects, along with tools for requirements analysis and evaluation of alternatives. Emphasis on prototyping and use of fourth generation languages.

325 PC LAN Applications (4)

Prereq: 220 and COB Introduction to Local Area Networks. Students serve as network administra-

tors to install, cable, and configure a Local Area Network. Topics include creating users, installing software, setting up printers, establishing security, and managing the network.

380 Business Data Base I (4)

Prereq: 220 and COB. Coreq: 320. Focuses on the use of relational data base technology in implementing business applications. Emphasizes the concepts of data base design and implementation and gives students a chance to create their own data bases.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

400 Contemporary Business Programming (4)

Prereq: 320 and 380. Students learn how to develop business applications using contemporary business programming tools and techniques. Programming languages and development environments are revised periodically based on accepted and evolving business practice.

420 Business Systems II (4)

Prereq: 400 and 325. Coreq: 485. Second of a two-part series on the development of computer information systems in business. This course looks at tools for design and implementation of computer information systems, along with testing and maintenance of systems.

430 IBM COBOL (4)

Prereq: 320 and 380. Deals with application of COBOL programming language to problems in marketing, finance, management, accounting, and economics.

455 Distributed Systems (4)

Prereq: 325 and COB. This class treats organization-wide networking, comparing the advantages and disadvantages of various network configurations. The class emphasizes Wide Area Network planning, with special attention to data administration policies and procedures.

460 Introduction to Groupware Applications (4)

Prereq: 320, 380 and COB. Introduction to the industry standard groupware product, Lotus Notes. The purpose of this course is twofold: (1) an understanding of groupware, groupware applications, and business implications of these applications, and (2) hands-on experience with using Lotus Notes and designing/developing groupware applications.

480 Business Data Base II (4)

Prereq: 380. This course builds on the concepts learned in Business Data Base I. Students learn to use advanced data base features in a lab-oriented environment. Applications will be written to solve business problems using the data stored in the data base.

485 Management Information Systems (4)

Prereq: 400 and 325 and sr rank. Coreq: 420. This is the capstone course for MIS majors. It will focus upon ways in which information systems can be created to give competitive advantages to businesses. The class will emphasize the management of computing from a people and data perspective, demonstrating that computer-based systems are increasingly the principal tool of effective management. *Tier III equivalent course.*

491 Seminar (1-4)

Prereq: 320, 380. Selected topics of current interest in the management information systems area.

492 Lab Assistant Seminar (1-15)

Prereq: perm. Students assist instructors with advising of students in lab classes. Assistants must receive an A in the lab class to be eligible to serve as an assistant. One hour of credit is given for three hours of assistant work.

497 Independent Research (1-4)

Prereq: accepted proposal and perm. Research in selected fields in management information systems under the direction of a faculty member. Student must submit a proposal and have it accepted by a faculty member before taking this course.

498 Internship (1-4)

Prereq: 12 hrs of MIS courses above 100, perm.

Marketing (MKT)

101 Consumer Survival in the Marketplace (4)

How a consumer can adapt himself or herself to modern marketing environment to increase satisfaction derived from spending his or her money.

202 Marketing Principles (4)

This course provides a broad understanding of marketing activities, decisions, and terms with an emphasis on the practices and problems of marketing managers and the analysis of the marketing environment.

240 Introduction to Marketing Management (3)

Prereq: No credit for both 240 and 202. This course provides an introductory coverage of topics in marketing. The course offers an early focus on the elements of the marketing mix to assist students when they take the integrated cluster. The course also includes specific assignments designed to enhance COB majors' understanding of marketing activities and strategies.

258 Skills for Professional Development (4)

Focuses on developing personal skills such as time management, networking, telephone use, computer etiquette, business etiquette, positive thinking, stress management, career planning, listening, and mapping the informal organization. Topics chosen by instructor.

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

358 Professional Selling Techniques (4)

Prereq: 202; marketing major or perm. This course combines personal selling theory with actual practice. Students learn skills needed for successful careers in sales and marketing.

379 Marketing Research (5)

Prereq: 202; QBA 201 or equiv. statistics course. This course provides an introduction to the field of marketing research for effective decision-making. Students will learn techniques involved in collection, tabulation, and analysis of marketing information.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

404 Logistics and Supply Chain Management (4)

Prereq: 202; ACCT 102; preference to majors. Problems encountered by manufacturer in establishing and maintaining effective distribution system, concentrating on channel design and strategies.

420 Services Marketing (4)

Prereq: Prereq: 202 or perm. This course reflects the increasing proportion of GNP taken up by the service sector. Industries that do not sell a physical good as their main offering to the public are examined. These could include the recreations industry, government agencies, financial institutions, and professional (legal, medical) services.

425 Business to Business Marketing (4)

Prereq: 202. This course introduces the field of business-to-business (B2B) marketing. The course answers the questions: What is business marketing? In what markets does it occur? Topics include: Organizational buyer behavior, methods of assessing business market opportunities, and business marketing strategies.

441 International Marketing (4)

Prereq: 202; preference to majors. This course focuses on understanding the major issues facing international/global marketing managers today through the application of marketing principles in the international/global business environment.

444 Consumer Behavior (4)

Prereq: 202. This course illustrates the practical importance of understanding consumers' knowledge and attitudes, incorporating various approaches for assessing such knowledge and

attitudes. It identifies major factors that influence how consumers process and learn marketing information and considers various techniques marketers can use to influence consumer attitudes and behavior.

450 Management of Promotion (4)

Prereq: 202; preference to majors. This course integrates communication theory, concepts and research with in-depth treatment of the following elements of the promotional mix: advertising, sales promotions, public relations, and point-of-purchase communications.

455 Achieving Customer Satisfaction and Service Excellence (4)

Prereq: 202. This course teaches students how companies can retain their current customers and develop long-term profitable relationships with them.

458 Sales Management (4)

Prereq: 358. Principles and practices in planning, organizing, and controlling sales force. Selection, training, compensating, supervising, and stimulating salespeople. Analysis of sales potentials and costs.

463 Marketing Strategy (4)

Prereq: 20 hrs of MKT including 202 and 379. This capstone course focuses on the integration of marketing knowledge accumulated as a marketing major. It includes situation analysis and development of strategic marketing plans. Consideration is given to the complex dynamic environment in which all marketing activities take place. *Tier III equivalent course.*

491 Seminar (1-4)

Prereq: perm. Selected topics of current interest in marketing area.

493 Readings (1-4)

Prereq: perm. Readings in selected fields of marketing. Topics selected by student in consultation with faculty member.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of marketing under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Materials Management Technology (MMT)

The following courses for the proposed A.A.S. in materials management technology are available only on the Lancaster campus:

101 Introduction to Materials Management (4)

Introduction to career of materials management, covering roles and responsibilities of the materials manager and how they relate to manufacturing processes.

189 Special Topics (1-3, max 9)

Prereq: 101. Special topics that are current and relevant to the materials management field. May be repeated.

200 Computer Applications in Materials Management (4)

Computer applications in materials management, including the use of data bases for inventory control, purchasing, and other electronic information. Also covers computer applications for electronic communications. 2 lec, 4 lab.

250 Shipping and Warehousing (3)

Prereq: 101. Shipping and warehousing of materials from point of origin to point of destination, emphasizing packaging, transportation, and storage. 2 lec, 2 lab.

262 Plant Layout and Material Handling (3)

Prereq: 101. Basic principles of plant facilities layout in relation to the flow of material through the workplace, including study of material handling system to move material in bulk or containers to and from the manufacturing processes. 2 lec, 2 lab.

263 Process Control (3)

Prereq: Tier I MATH. Analysis of basic principles of quality control, including frequency distribution, sampling inspection, and charts and gauges

related to inspection. Field trips part of lab activity. 2 lec, 2 lab

264 Production Scheduling (3)

Various established techniques of scheduling, analyzing, and improving production operations. Focuses on detailed study of applications for CPM, PERT, MRP, and other production systems. 2 lec, 2 lab.

270 Introduction to Organizational Behavior (4)

Types of behavior organizations exhibit and human relations skills. Covers face-to-face discussions, dialogue over the phone, and other communication skills.

289 Independent Study (1-5, max 5)

Prereq: 101. Study of a particular topic pertinent to the materials management field under direction of a faculty member. May be repeated 1-5 lec, 2-8 lab.

290 Externship (4)

Prereq: 101, 200, 250, 262, 263, 264. Performance of materials manager duties in a supervised, unpaid experience, working 28 hours/week with local businesses. Efforts are made to rotate experience.

Mathematics (MATH)

101 Basic Mathematics (4)

Prereq: placement level Dev1. Developmental course in arithmetic and elementary algebra for students with unusually weak backgrounds. Credit applies as hours toward graduation but meets no other college requirement. No credit to student who has passed higher-level mathematics course.

102 Elementary Algebra (4)

Prereq: 101 or placement level Dev2. Developmental course in algebra for students with unusually weak backgrounds. A maximum of 8 credit hours of developmental courses may be applied for graduation. Meets no other college requirement. No credit to student who has passed higher-level mathematics course Available on regional campuses.

See General Education Requirements in the Graduation Requirements—University Wide section for quantitative skills requirements.

109 Consumer Mathematics (4) (1M)

Prereq: 101 or 102 or placement level 1. (formerly 151) Applications of elementary mathematics to day-to-day problems. Special emphasis on consumer topics such as compound interest, mortgages, and installment buying. Scientific calculator required. Does not apply to arts and sciences requirements. No credit to those with credit for course above 150.

113 Algebra (5) (1M)

Prereq: 101 or 102 or placement level 1. Topics in algebra including functions, linear equations and systems, polynomials, rational and radical expressions, quadratic equations, exponential and logarithmic functions, and inequalities. Graphing calculators are employed. No credit to those with credit for 117 or 263A.

115 Pre-Calculus (5) (1M)

Prereq: 113 or placement level 2. Graphs, inverses, and operations of functions. Study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Additional topics from trigonometry and analytic geometry. Recommended only for students intending to enroll in the 263 calculus sequence.

117 Elementary Applied Mathematics (4) (1M)

Prereq: placement level 1. Topics from intermediate algebra such as functions and graphs, systems of linear equations, 3x3 determinants, factoring, quadratic equations and inequalities, exponents and radicals, and logarithms. Available by correspondence and on some regional campuses. Students cannot earn credit for both this course and 113.

118 Elementary Applied Mathematics (4) (1M)

Prereq: 117. Topics from trigonometry and analytic geometry including trigonometric functions and their graphs, vectors and oblique triangles, trigonometric identities, j -operator, straight lines, conic sections, and translation of axes. Available by

correspondence and on some regional campuses. Students cannot earn credit for both 118 and any of: 115, 116, or 130.

120 Elementary Topics in Mathematics (4) (1M)

Prereq: placement level 1. 120-121-122 is a sequence for majors in elementary education and related fields. Emphasis of 120 is on number systems and related properties. 121 and 122 focus on topics related to elementary curriculum including geometry, algebra, statistics, and probability. Satisfies Tier I requirement for elementary education majors only. Does not apply to Arts and Sciences natural science requirements.

121 Elementary Topics in Mathematics (4) (1M)

Prereq: 120. Continuation of 120. Does not apply to Arts and Sciences natural science requirements.

122 Elementary Topics in Mathematics (3) (1M)

Prereq: 121. Continuation of 120-121. Does not apply to Arts and Sciences natural science requirements.

147 Introductory Game Theory (4) (1M)

Prereq: 101 or placement level 1. The course introduces mathematical models for situations of conflict, whether actual or recreational. Topics include matrix representation of games, two-person and n -person games, zero and non-zero-sum games, Nash equilibria, cooperation and the prisoner's dilemma. Application to topics such as warfare, business decisions, football, environmental policy, evolution, voting, and poker will be considered.

150 Finite Mathematics (4) (1M)

Prereq: 113 or placement level 2. (formerly 250A) Set theory; logic; vectors and matrices; linear programming.

163A Introduction to Calculus (4) (2N)

Prereq: 113 or placement level 2. Presents a survey of basic concepts of calculus. For students who want an introduction to calculus, but do not need the depth of 263A-B-C. Note: Students cannot earn credit for both 163A and either of 263A or 266A.

163B Introduction to Calculus (3) (2N)

Prereq: 163A. Continuation of 163A. Note: Students cannot earn credit for both 163B and either of 263B or 266B.

211 Elementary Linear Algebra (4) (1M)

Prereq: 113 or placement level 2. Solutions to linear systems, matrices and matrix algebra, determinants, n -dimensional real vector spaces and subspaces, bases and dimension, linear mappings, matrices of linear mappings, eigenvalues and eigenvectors, diagonalization. Emphasis is on techniques and computational skills. No credit to students who have completed 410 or 411.

250 Introduction to Probability and Statistics I (4) (1M)

Prereq: 113 or placement level 2. (formerly 250B) Organization of data, central tendency and dispersion, probability, concept of random variables, binomial and normal probability distributions. No credit for 250 if already credit for 450A, PSY 120, PSY 121, PSY 221, ISE 304, or ISE 305.

251 Introduction to Probability and Statistics II (4) (1M)

Prereq: 250. Estimation, testing hypotheses, linear regression and correlation, and analysis of variance. Students in business administration should enroll in more specialized QBA 201. No credit for 251 if already credit for 450B, QBA 201, PSY 121, PSY 221, or ISE 306.

NOTE: It is strongly recommended that students who earn less than a 2.0 in any course in the 263 calculus sequence retake that course before progressing in the sequence.

263A Calculus I (4) (2N)

Prereq: 115 or placement level 3. Limits and differentiation, including trigonometric functions. Applications of the derivative. NOTE: Students cannot earn credit for both 263A and either of 163A or 266A.

263B Calculus II (4) (2N)

Prereq: 263A or 266A. Integration, logarithmic, exponential, and other transcendental functions; indeterminate forms, improper integrals, and techniques of integration. NOTE: Students cannot earn credit for both 263B and either 163B or 266B.

263C Calculus III (4) (2N)

Prereq: 263B or 266B. Continuation of 263A-B. Parametric equations, polar coordinates, infinite series, and vectors.

263D Calculus IV (4)

Prereq: 263C. Continuation of 263A-B-C. Multi-dimensional topics, partial differentiation, multiple integrals.

266A Calculus with Applications to Biology I (4) (2N)

Prereq: 115 or placement level 3. Introduction to dynamical systems, limits, and derivatives in the context of biological applications. Students cannot earn credit for both 266A and either of 163A or 263A.

266B Calculus with Applications to Biology II (4) (2N)

Prereq: 266A. Continuation of 266A. Integral calculus and the analysis of differential equations in the context of biological applications. No credit for 266B if already credit for 163B or 263B.

297T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

298T Mathematics Tutorial (1-15)

Prereq: 297T. (winter) Continuation of 297T. See 297T for description.

299T Mathematics Tutorial (1-15)

Prereq: 298T. (spring) Continuation of 297T and 298T. See 297T for description.

300 History of Mathematics (4)

Prereq: math major, jr or sr. Survey of main lines of mathematical development in terms of contributions made by great mathematicians.

NOTE: The following four courses (306, 307, 314, 330) are primarily intended for prospective mathematics majors to introduce them to mathematical theory at an elementary level.

306 Foundations of Mathematics I (4)

Prereq: 263A or 163B. An introduction to mathematical thinking and formal proofs. Topics include sets, relations, and functions.

307 Introduction to Number Theory (4)

Prereq: 306. Investigation of properties of natural numbers. Topics include mathematical induction, prime factorization, Euclidean algorithm, Diophantine equations, congruences, and divisibility.

308 Discrete Mathematics (4)

Prereq: 211 or 263A. Introduction to discrete mathematical structures and their application. The main topics are induction, recursion, graph theory, and combinatorics. Applications include discrete and network optimization, discrete probability, game theory and voting systems.

314 Elementary Abstract Algebra (4)

Prereq: 306. Mappings, relations, definitions, and examples of groups, groups of rotations, cyclic groups, Lagrange's Theorem, fields, polynomials over fields.

320L Teaching of Mathematics in Secondary School (5)

Prereq: 211, 330B, and jr. or sr. Orientation to professional mathematics education and topics related to teaching of mathematics on secondary school level. Not counted toward math major or minor or in Arts and Sciences 200L.

330A Foundations of Geometry (4)

Prereq: 306. Introduction to axiomatic mathematics via 2 finite geometries and variety of interpretive models. Develops plane Euclidean and non-Euclidean geometries in rigorous fashion from axiomatic approach.

330B Foundations of Geometry (4)

Prereq: 330A. Continuation of 330A. See 330A for description.

333 Elementary Projective Geometry (4)

Prereq: 330. Topics in projective geometry.

340 Differential Equations (4)

Prereq: 263C. Ordinary differential equations and related topics.

343 Mathematical Modeling (4)

Prereq: 250, and 163B or 263B. Construction and analysis of mathematical models and their use in investigation of physical, chemical, geological, social, and environmental problems. Models

which use only elementary mathematical concepts stressed.

344 Numerical Methods for Civil and Mechanical Engineers (4)

Prereq: 340 and CE 220. The fundamentals of numerical methods for civil engineering students. Topics include: approximation and interpolation, numerical solution to equations, numerical differentiation and integration, numerical solutions to differential equations, solutions of systems of equations, and finding eigenvalues. The topics will be posed in a setting of problems intended for civil engineering students using MATLAB.

360 Intermediate Analysis (4)

Prereq: 263D and 306, or perm. Rigorous study of limits, continuity, and differentiability of functions of 1 real variable.

397T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

398T Mathematics Tutorial (1-15)

Prereq: 397T. (winter) Continuation of 397T. See 397T for description.

399T Mathematics Tutorial (1-15)

Prereq: 398T. (spring) Continuation of 397T and 398T. See 397T for description.

406 Foundations of Mathematics II (4)

Prereq: 306. Introductory topics in set theory and axiomatic development of real number system.

407 Number Theory (4)

Prereq: 307, 263C. Topics in number theory.

410 Matrix Theory (4)

Prereq: 263D. Matrix algebra, determinants, solutions of linear systems, eigenvalues and eigenvectors, matrix functions and applications to differential equations, Jordan canonical form, inner products diagonalization and generalized inverses. Intended primarily for students interested in applied mathematics, engineering, and sciences.

411 Linear Algebra (4)

Prereq: 306. (fall) Vector spaces and linear transformations, characteristic values, quadratic forms, dual spaces, normal forms, and Jordan canonical form.

412 Introduction to Algebraic Coding Theory (4)

Prereq: 211 or 410. Encoding and decoding for error correction. Linear codes over finite fields and syndrome decoding. Cyclic codes, Hamming codes, BCH and Reed-Solomon codes.

413 Introduction to Modern Algebra (4)

Prereq: 314 or 411. (winter) Groups, permutation groups, subgroups, normal subgroups, quotient groups. Conjugate classes and class equation formula and its applications to p-groups. Fundamental theorem on homomorphisms.

413B Introduction to Modern Algebra (4)

Prereq: 413A. (spring) Fundamental theorem on finite abelian groups and its consequences. Cauchy theorem and first Sylow theorem. Polynomial rings. UFD and Euclidean domains. Maximal ideals. Algebraic extensions and splitting fields. Fundamental theorem of Galois theory.

439 Topics in Geometry (1-5, max 10)

Prereq: perm. When demand is sufficient, course in some phase of geometry will be offered under this number.

440 Vector Analysis (4)

Prereq: 263D. Vector algebra and its applications. Vector calculus and space curves. Scalar and vector fields, gradient, divergence, curl, and Laplacian. Line and surface integrals. Divergence theorem. Stoke's theorem, and Green's theorem.

441 Fourier Analysis and Partial Differential Equations (4)

Prereq: 340 and 263D. Representation of functions as sums of infinite series of trigonometric functions, Bessel functions, Legendre polynomials, or other sets of orthogonal functions. Use of such representations for solution of partial differential equations dealing with vibrations, heat flow, and other physical problems.

442 Theory of Linear and Nonlinear Programming (4)

Prereq: 211 or 410, and 263D; computer programming experience is desirable. Minimization

of functions subject to equality and inequality constraints, Kuhn-Tucker theorem, algorithms for function minimization, such as steepest descent and conjugate gradient and penalty function methods. (Not a course in computer programming.)

443 Mathematical Modeling and Optimization (4)

Prereq: 263D, 340, 211 or 410. Investigation of differential equation and/or discrete optimization models of physical, social, biological phenomena and large economic systems by qualitative analysis. Optimal criteria incorporated to convert models to optimal control problems. Pontriagin's maximal principle used to find analytic solutions. Numerical solutions to optimal control problems also treated. Discrete optimization includes topics from linear and integer programming, network algorithms and their analysis.

444 Introduction to Numerical Analysis (4)

Prereq: 263D, 340, and any CS course numbered 200 or above. Polynomial interpolation and approximation; numerical integration and differentiation; numerical solution to differential equations; numerical methods for matrix inversion, determination of eigenvalues, and solutions of systems of equations.

445 Advanced Numerical Methods (4)

Prereq: 441, 444. (winter) Numerical methods for solutions of ordinary and partial differential equations (credit for only 1 of 445 or ET 445).

446 Numerical Linear Algebra (4)

Prereq: 410 and any CS course numbered 200 or above. Floating point arithmetic, numerical solution of systems of linear equations using Gaussian elimination and its variants, numerical techniques for eigenvalues, error analysis, and implementation of algorithms on computer.

448 Introduction to Waves and Wavelets with Applications (4)

Prereq: 410 or 411, and 441 or 444, and CS 210 or 220. An elementary introduction to Fourier and wavelet analysis and its application in engineering, such as data analysis and signal and image analysis. Focus on understanding basic mathematical concepts and methodology, developing related numerical algorithms and their implementation. Prior experience with computer software and computer algebra systems, such as the matlab toolbox and basic computer programming skills are required.

449 Advanced Differential Equations (4)

Prereq: 340, and 410 or 411. Introduction to theory of ordinary differential equations with special attention to oscillation, plane autonomous systems, Liapunov theory, and quadratic functionals.

450A Theory of Statistics (4)

Prereq: 263D. (fall) Topics in the 450A-B-C sequence include probability distributions of one and several random variables, conditional probability and independence, expectation and variance, moment generating functions, the central limit theorem, sampling theory, estimation, testing hypotheses, regression and correlation, and analysis of variance.

450B Theory of Statistics (4)

Prereq: 450A. (winter) Continuation of 450A. See 450A for description.

450C Theory of Statistics (4)

Prereq: 450B. (spring) Continuation of 450A-B. See 450A for description.

451 Stochastic Processes (4)

Prereq: 450B. Markov chains, Poisson process, birth and death process, queuing, and related topics.

452 Statistical Computing (4)

Prereq: 450B. Introduction to computational statistics; Monte Carlo methods, bootstrap, data partitioning methods, EM algorithm, probability density estimation, Markov Chain Monte Carlo methods.

455 Basic Principles of Actuarial Science (4)

Prereq: 450A. Basic concepts of risk theory and utility theory, applied calculus and probability models for the analysis of claims, frequency and severity of distributions, loss distributions, premium determination, insurance with deductible, reinsurance and self-insurance.

456 Theory of Interest and Life Contingencies (4)

Prereq: 450A. Theory of interest and contingent payment models. Mathematical models for the actuarial present value of a future set of payments contingent on some random event(s), life insurance, life annuities, benefit reserves.

460A Advanced Calculus (4)

Prereq: 360. (fall) Critical treatment of functions of one or several variables. Topics in the 460A-B-C sequence include the basic topological features of Euclidean spaces, a careful study of limits and continuity, Riemann-Stieltjes integration, uniform convergence, and multidimensional differentiation and integration.

460B Advanced Calculus (4)

Prereq: 460A. (winter) Continuation of 460A. See 460A for description.

460C Advanced Calculus (4)

Prereq: 460B. (spring) Continuation of 460A-B. See 460A for description.

470 Complex Variables (4)

Prereq: 263D. Analytic and harmonic functions. Cauchy integral and residue theorems, contour integration, Taylor and Laurent expansions, conformality, and linear transformations with applications.

480A Elementary Point Set Topology (4)

Prereq: 360. (winter) Topology of Euclidean spaces and general metric spaces.

480B Elementary Point Set Topology (4)

Prereq: 480A. (spring) Introduction to general topological spaces.

486 Introduction to Bioinformatics (4)

Prereq: grade of 2.0 or better in 263B or 266B. Major topics and techniques in bioinformatics, including homology searches, sequence alignment, gene finding, phylogenetic trees. The course combines biological, computational, and statistical approaches to the extraction of information from large sets of biomolecular data.

490 Selected Topics in Mathematics (1-5)

Prereq: perm of instructor and chair. When demand is sufficient, course in some phase of mathematics will be offered under this number. (May be repeated for credit.)

491 Studies in Mathematics (1-15)

Prereq: 6 hrs of 400-level courses, sr or jr in Honors Tutorial College, or perm of chair and instructor. Selected topics in mathematics studied under guidance of instructor particularly interested in field. (May be repeated for credit.)

497T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

498T Mathematics Tutorial (1-15)

Prereq: 497T. (winter) Continuation of 497T. See 497T for description.

499T Mathematics Tutorial (1-15)

Prereq: 498T. (spring) Continuation of 497T and 498T. See 497T for description.

Medical Assisting Technology (MAT)

The following courses for the A.A.S. in medical assisting technology are available only on the Lancaster campus:

101 Introduction to Medical Assisting (2)

Introduction to the career of medical assisting. Roles and responsibilities of a medical assistant, overview of the health care profession; and the safety, liability, professional, and interpersonal relationships necessary in the medical field.

140 Medical Terminology for the Medical Assistant (3)

Understanding and usage of medical terms used in the allied-health field. Emphasis is on the spelling of, definition of, and creation of medical terms through the understanding of prefixes, suffixes, and root words. Terminology learned through body system knowledge. Credit cannot be earned for both 140 and OTEC 141M.

150 Medical Transcription and the Medical Assistant (3)

Prereq: 140 or concurrent, OTEC 121. Application of medical transcription rules to typical medical documents, including those used in both hospitals and ambulatory-care settings. Covers proper use and correct spelling of medical terminology, as well as increased production of documents.

170 Administrative Medical Assisting (4)

Prereq: 101, OTEC 121. Introduction to the medical office and current administrative practices. Topics include confidentiality and the daily practices of the medical assistant.

201 Clinical Techniques (4)

Prereq: 101, BIOS 103. Introduction to medical laboratory theory and practice in preparation for physical examination. Patient and exam room preparation, vital sign tests, taking health histories, aseptic techniques, infection control, and universal precautions are studied. 3 lec, 2 lab.

202 Clinical Techniques II (4)

Prereq: 201. Theory and practice in minor hematology, laboratory tests, urinalysis, administering medications, pharmacology, and venipuncture. Covers documentation and government regulations, and the processes of sterilization, quality control, and vision and blood testing. 2 lec, 4 lab.

203 Clinical Techniques III (4)

Prereq: 202. Theory and practice in assisting with minor office surgery, office procedures, and diagnostic procedures. Operation, maintenance, and inventory control of equipment and supplies required of a medical assistant. 2 lec, 4 lab.

210 Law and Ethics for Medical Assisting (2)

Prereq: 101. Introduction to the law and ethics as they apply to allied health fields. Topics include practicing in a medical office, professional liability and medical malpractice, medical records and informed consent, medical ethics, documentation and reporting, and licenses and accreditation.

230 Insurance Billing and Coding for the Medical Assistant (4)

Prereq: 140, 170. Theory and application of skills necessary to process insurance forms in the health care setting. Covers major nationwide medical insurance programs and extensive study and use of ICD-9-CM and CPT coding.

250 Computerized Office Procedures for the Medical Assistant (4)

Prereq: 170, 230. Theory and application of skills necessary to manage administrative duties in a medical office. Emphasis is on computer applications and tasks such as scheduling and billing.

290 Special Topics (1-5, max 5)

Prereq: 101. Special topics current and relevant to the medical assisting field.

291 Independent Study (1-5, max 5)

Prereq: 101. Independent study of a particular topic pertinent to medical assisting under the direction of a faculty member.

295 Externship (3)

Prereq: 203. Practical experience as a medical assistant in a supervised unpaid clinical experience. Student performs administrative and clinical procedures and develops professional attitudes. Student works 21 hours per week each week during the quarter enrolled.

Medical Technology

See Preparation for Clinical Laboratory Science under Arts and Sciences or Biological Sciences under Courses of Instruction.

Microbiology

See Biological Sciences.

Military Science (MSC)

Army ROTC

Regional Campus Students can participate in the two-year program by attending advanced courses at the Athens campus.

101 Fundamental Military Leadership Concepts (1)

Prereq: fr or soph. (fall) Broad overview of the Army as an institution of the U.S. government. Introductory course to the Army's Reserve Officer Training Corps (ROTC) and overview of the curriculum that can lead to a commission as a second lieutenant in the U.S. Army. Increases self-confidence through activities in basic drill, physical fitness, rappelling, and firing the M-16 rifle. Teaches fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environment. 1 hr and a required 2-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and one weekend exercise.

102 Fundamental Military Concepts and Basic Leadership I (1)

Prereq: fr or soph. (winter) Provides an understanding of selected basic soldier skills that are essential to the Army's ability to win on the modern battlefield. Develops communication and leadership skills to improve individual performance and group interaction. Reinforces self-confidence through participation in basic drill, physical fitness, and a water survival exercise. Provides hands-on training of basic individual skills both in the classroom and outdoor laboratory environment. 1 hr and a required 2-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and a weekend exercise.

103 Basic Military Leadership II (1)

Prereq: fr or soph. (spring) Continuation of selected basic soldier skills that are essential to the Army's ability to win on the modern battlefield. Develops skills to navigate on the ground by understanding map reading. Reinforces self-confidence through participation in basic drill, physical fitness, rappelling, and a land navigation exercise. Provides hands-on training of basic individual skills both in the classroom and outdoor laboratory environment. 1 hr and a required 2-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and a weekend exercise.

110L Leadership Laboratory (1)

Prereq: Concurrent with 101, 102, 103. Provides additional skills and hands-on experiences and allows the student to practice what was taught in the classroom. Offers insight into a military organization and builds self-confidence and team-building skills.

201 Advanced Military Leadership (2)

Prereq: fr or soph. (fall) Continues basic skills by applying teamwork as a small group. Teaches the fundamentals of land navigation and basic life-saving techniques. Enhances survival awareness through lectures, films, and participation. Includes a one-day orienteering course, which occurs on a weekend during the quarter. 2-hr-a-week course with a required Leadership Lab, MSC 201L, one day a week. The course also includes rappelling and rifle familiarization, which may not occur during inclement weather.

202 Military Leadership, Tactics, and Officership (2)

Prereq: fr or soph. (winter) Uses ethics-based leadership skills to develop individual abilities and contribute to the building of effective teams of people. Develops skills in oral presentations and military correspondence. Presents the fundamentals of military leadership and their application to team development. Teaches the basic duties of the commissioned and noncommissioned officer. This course is a 2-hr-a-week course with a required Leadership Lab, MSC 202L, once a week.

203A Military Tactics and Officership II (2)

Prereq: fr or soph. (spring) Introduction to individual and team development of military tactics in small unit operations. Includes use of radio communications, movement techniques, issue and operation order, security, and troop leading procedures. Teaches techniques for training others as an aspect of continued leadership development. This course is a 2-hr-a-week course with a required Leadership Lab, MSC 203L, one day a week. Includes rappelling and rifle familiarization, which may not occur during inclement weather.

210L Leadership Laboratory (1)

Prereq: Concurrent with 201, 202, 203. Provides additional skills and hands-on experiences and allows the student to practice what was taught in the classroom. Offers insight into a military organization and builds self-confidence and team-building skills.

230 Leaders Training Course (4)

28-day summer off-campus training program that qualifies students for direct entry to advanced ROTC course. Transportation to and from camp, uniforms, meals, and housing paid for by Army.

301 Small Unit Leadership (3)

Prereq: perm. Study of basic leadership principles, the Army decision-making process, small unit tactics, and required individual skills. Course includes intrinsic leadership practical exercises. A 2-hr-a-week lab, three 1-hr sessions of physical training a week, and a required weekend field training exercise are required parts of the course.

302 Small Unit Leadership and Operations (3)

Prereq: 301. Continuation of 301 developing from squad to platoon level organization and tactics, as well as an increased complexity in leadership positions. Labs, physical training, and a field training exercise are required as part of the course.

303 Small Unit Operations (3)

Prereq: 302. Continuation of PLT level operations with an increased emphasis on the dynamics of leadership to include the ethical decision-making process and the laws of war. The course also makes final preparations for the student to attend their summer training. Labs, physical training, and a field training exercise are required as part of the course.

310A Advanced Leadership Laboratory (1)

Prereq: enrollment in 301. (fall) Designed to allow you to actually practice what is taught in the classroom by using a hands-on approach.

310B Advanced Leadership Laboratory (1)

Prereq: enrollment in 302. Continuation of 310A. See 310A for description.

310C Advanced Leadership Laboratory (1)

Prereq: enrollment in 303. (spring) Continuation of 310A-B. See 310A for description.

330 National Advanced Leadership Camp (4)

Prereq: 303. 32-day field training session conducted at Ft. Lewis, Washington. Exposure to barracks life and daily leadership activities of future commissioned officers in field and garrison. Transportation to and from camp, uniforms, meals, and lodging paid for by the Army.

401 Military Leadership, Management, and Ethics (3)

Prereq: 303. Provides opportunity to plan, conduct, and evaluate activities of the Army cadet organization. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people, manage resources, and plan and execute complex small-organization operations. Teaches application of various Army policies and programs. Two hours and a required Leadership Lab, MSC 410, plus participation in three 1-hr sessions for personal and organizational physical fitness.

402 Military Leadership, Management, Ethics, and Law (3)

Prereq: 401. Continuation of 401. Increased emphasis on critical thinking skills and ability to quickly identify and resolve complex leadership issues.

403 Transition from Cadet to Lieutenant (3)

Prereq: 402. (spring) U.S. in contemporary world scene. Includes study of other major factors in the world arena.

410A Advanced Leadership Laboratory (1)

Prereq: enrollment in 401. (fall) Allows you to plan and conduct training events such as drill and ceremony and land navigation.

410B Advanced Leadership Laboratory (1)

Prereq: enrollment in 402. (winter) See 410A for description.

410C Advanced Leadership Laboratory (1)

Prereq: enrollment in 403. (spring) See 410A for description.

490 Special Problems (1-5, max 15)

Prereq: perm. Provides continuing military education on individual basis. Provides advanced and specialized training depending upon needs of individual and department.

Music (MUS)**Applied Music**

Fee for private instruction registration for all applied music (piano, voice, organ, strings, woodwind, brass, percussion) is \$100 (MUS 340-358).

Fees for class voice, piano, guitar, and all instrumental methods courses are \$25. (MUS 141A, 142A, 143A, 147A, 148A, 149A, 165A, 166A, 182, 261 A-B, and 263 A-K)

Fees for music computer courses are \$40 (MUS 178 and 178A)

Note: A description of the proficiency requirements for applied music may be obtained from the School of Music.

090 Performance Laboratory (0)

Required of all undergraduate music majors.

141 Class Piano (2)

Prereq: music major.

141A Class Piano (2)

Prereq: nonmusic major. *Fisher.*

142 Class Piano (2)

Prereq: 141, music major. Continuation of 141.

142A Class Piano (2)

Prereq: 141A, nonmusic major. *Fisher.* Continuation of 141A.

143 Class Piano (2)

Prereq: perm, 142, music major. Continuation of 141 and 142.

143A Class Piano (2)

Prereq: 142A, nonmusic major. *Fisher.* Continuation of 142A.

147 Class Voice (2)

Prereq: music major. For students enrolling in beginning voice.

147A Class Voice (2)

Prereq: nonmusic major. Beginning instruction in voice for nonmusic majors.

148 Class Voice (2)

Prereq: 147. Continuation of 147.

148A Class Voice (2)

Prereq: 147A, nonmusic major. (winter) Continuation of 147A.

149 Class Voice (2)

Prereq: 148. Continuation of 148.

149A Class Voice (2)

Prereq: 148A, nonmusic major. (spring) Continuation of 148A.

165 Class Folk Guitar (2)

Prereq: music major. Introduction to guitar fundamentals including the playing of chords and melodies using varied systems of notation, basic strumming and finger-picking techniques, and tuning. Skill development in the use of guitar in vocal accompaniment and early solo work.

165A Class Folk Guitar (2)

Prereq: nonmusic major. See 165 for further description.

166 Class Folk Guitar (2)

Prereq: 165. Continuation of 165.

166A Class Folk Guitar (2)

Prereq: 165A. Continuation of 165A.

241 Class Piano (2)

Prereq: music major, 143 with minimum grade of C, or perm.

242 Class Piano (2)

Prereq: 241, music major. Continuation of 241.

243 Class Piano (2)

Prereq: 242, music major. Continuation of 241 and 242.

244D Communiversity Band (2)

Prereq: audition. A wide variety of music literature, including marches, overtures, and musicals is studied and performed both on and off campus under both a permanent and guest conductor.

251A Marching Band (2)

Prereq: audition. *R. Suk.*

251B Wind Ensemble (2)

Prereq: audition. *J. Climer.*

251C University Band (1)

Prereq: audition. *R. Suk.*

251D Varsity Band (1)

Prereq: audition. *R. Suk.*

251E Symphonic Band (1)

Prereq: audition. *R. Suk.*

252A Symphony Orchestra (2)

Prereq: audition. *S. Haung.*

252B Chamber Orchestra (1)

Prereq: audition.

253A University Singers (2)

Prereq: audition. *P. Jarjisan.*

253B Choral Union (1)

Prereq: audition. *P. Jarjisan.*

253C Opera Theater (1-4)

Prereq: audition.

253D The Singing Men of Ohio (1)

Prereq: audition. *Staff.*

253E Women's Choral (1)

Prereq: audition. *P. Jarjisan.*

254A Chamber Music, Strings (1)

Prereq: strings. Participation in playing of standard string chamber literature.

254B Chamber Music, Woodwinds (1)

Participation in playing of standard woodwind chamber literature.

254C Chamber Music, Brass (1)

Participation in playing of standard brass chamber literature.

254D Chamber Music, Percussion (1)

Participation in playing of standard percussion chamber literature.

254E Chamber Music, Contemporary (1)

New music ensemble. Participation in performing contemporary chamber music for various ensembles of instruments and voices.

254F Chamber Music, Piano (1)

Participation in playing of standard piano chamber literature.

255A Jazz Ensemble (1)

Prereq: audition. *M. James.*

255B Percussion Ensemble (1)

R. Braun.

255C Trombone Choir (1)

C. Hayes.

340 Voice (1-4)

Prereq: music major. *P. Pease.*

341 Piano (1-4)

Prereq: music major. *G. Berenson, S. Henry, R. Syracuse.*

343 Organ (1-4)

P. Barte.

343A Harpsichord (1-4)

P. Barte.

344 Violin (1-4)

M. Bagley

345 Viola (1-4)

Staff

346 Violoncello (1-4)

M. Carrera

347 Double Bass (1-4)

D. Messina.

348 Flute (1-4)

A. Sincoff.

349 Oboe (1-4)

D. Conaty.

350 Bassoon (1-4)

Harley.

351 Clarinet (1-4)

R. Rischin.

352 Saxophone (1-4)

M. James.

353 Trumpet (1-4)

J. Schlabach.

354 Horn (1-4)

S. Smith.

355 Euphonium (1–4)

J. Smith.

356 Trombone (1–4)

C. Hayes.

357 Tuba (1–4)

J. Smith.

358 Percussion (1–4)

R. Braun

359 Class Piano (2)

Prereq: 243 with minimum grade of C, and 103

360 Class Piano (2)

Prereq: 359.

361 Class Piano (2)

Prereq: 360.

370 Practicum in Music (1–2, max 12)

Provides practical experiences such as supervised private and/or small group teaching, seminars in instrument repair, small touring ensembles, and pit orchestra performance. May be repeated

372 Advanced Functional Skills (2)

Prereq: jr in piano. (fall) Instruction to provide greater facility in handling basic functional keyboard skills. Emphasis on transferring these skills to actual situations encountered as music educators and/or music therapists.

375A English Diction for Singers (1)

Stresses using vocal repertoire, correct pronunciation for singing.

375B Italian Diction for Singers (1)

Prereq: ITAL 111. See 375A for description.

375C German Diction for Singers (1)

Prereq: GER 111. See 375A for description.

375D French Diction for Singers (1)

Prereq: FRN 111. See 375A for description.

377A Jazz Improvisation I (2)

Prereq: C or better in 103. *Bastin*. Learning and applying through improvisation the Ionian, Dorian, and Mixolydian modes, the ii-V7-I progression, and culminating with a final project utilizing the song form.

377B Jazz improvisation II (2)

Prereq: C or better in 377A. *Bastin*. Learning and applying through improvisation the whole tone, diminished and blues scales, the Aeolian and Locatation modes, the ii-V7-I progression, and culminating with a final project utilizing blues form.

379 Performance Preparation (2)

Assistance in developing strategies for preparing physically and psychologically to achieve maximum potential in musical performance.

450 Accompanying (1, max 3)

Basic problems in accompanying vocalists and instrumentalists—rehearsal techniques, ensemble, pedaling, balance, etc. May be repeated.

455 Basic Conducting (3)

Prereq: 203, 205. *P. Jarjisian, J. Climer, and Huang*. Basic beat patterns, technique of baton, and use of left hand. Experience in conducting choral and small instrumental ensembles in works suitable for school groups.

456A Instrumental Conducting (3)

Prereq: 205, 455. *J. Climer*. Experience in conducting from full score; includes band and orchestral works suitable for high school groups.

456B Choral Conducting (3)

Prereq: 205, 455. *P. Jarjisian*. Specialized conducting techniques for choral groups, including experience in conducting works suitable for high school and college groups.

457A Solo Repertoire of String Instruments (1)

Prereq: 323. Survey of student's major performance instrument literature.

457B Solo Repertoire of Woodwind Instruments (1)

Prereq: 323. See 457A for description.

457C Solo Repertoire of Brass Instruments (1)

Prereq: 323. See 457A for description.

457D Solo Repertoire of Vocal Music (1)

Prereq: 323. See 457A for description.

457F Solo Repertoire of Percussion Instruments (1)

Prereq: 323. See 457A for description.

457G Keyboard Repertoire I (2)

Prereq: 125. A comprehensive study of the keyboard repertoire from 1600 through 1750, including major works of Baroque composers

457K Keyboard Repertoire II (2)

Prereq: 125. A comprehensive study of the piano repertoire from 1750 through 1900, including major works of classical and romantic composers.

457L Keyboard Repertoire III (2)

Prereq: 125. Twentieth century piano repertoire beginning with works from the Impressionistic Period and including major works of composers to the present.

458A String Instrument Pedagogy (2)

Teaching techniques and use of selected materials for various levels of ability. Includes practical experience in teaching string instruments.

458B Woodwind Instrument Pedagogy (2)

See 458A for description—woodwind instruments.

458C Brass Instrument Pedagogy (2)

See 458A for description—brass instruments.

458D Vocal Pedagogy (2)

See 458A for description—voice.

458E Class Piano Pedagogy (2)

M. Stewart. Practical teaching techniques unique to class piano instruction, particularly in electronic lab. Examination of useful materials for various levels of ability. Includes some experience in classroom teaching

458F Percussion Instruments Pedagogy (2)

See 458A for description—percussion instruments.

458G Piano Pedagogy (2)

(fall) *G. Berenson*. Provides creative teaching strategies for piano teacher. Teaching philosophies, objectives, and procedures discussed and applied to group and private piano instruction. Includes teaching techniques for working with students of all ages and levels.

458H Piano Pedagogy (2)

(winter) *G. Berenson*. Continuation of 458G. See 458G for description.

458I Piano Pedagogy (2)

(spring) *G. Berenson*. Continuation of 458G and 458H. See 458G for description.

459A Instrumental Conducting II (3)

Prereq: 456A. *J. Climer*.

459B Choral Conducting II (3)

Prereq: 456B. *P. Jarjisian*.

495* Jr. Recital (1)

Prereq: Music major; permission of applied instructor AND junior classification in applied music. Public performance of repertoire representative of a variety of historical and stylistic periods. *Tier III equivalent course, but both 495 and 496 must be taken to receive Tier III equivalent credit.

496* Sr. Recital (3)

Prereq: Music 495 AND senior level classification in applied music. Public performance of repertoire representative of a variety of historical and stylistic periods. *Tier III equivalent course, but both 495 and 496 must be taken to receive Tier III equivalent credit.

497 Recital (1–2)**Music Education****160 Music Fundamentals (3)**

For elementary education majors only. Reviews the fundamentals of music with piano applications.

161 Music for the Classroom Teacher (3)

Prereq: 160 with minimum grade of C. Methods of teaching elementary music. For elementary education majors only.

163 Introduction to Music Education (2)

Introduction of major components of music teaching in elementary and secondary schools.

261A Upper Strings Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in upper stringed instruments with emphasis on teaching techniques, methods, and materials.

261B Lower Strings Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in lower stringed instruments with emphasis on teaching techniques, methods, and materials.

262 Music in Early Childhood (3)

Methods and materials for aesthetic development of preschool children. Exploration of reading readiness and vocal, rhythmic, listening activities.

263A Percussion Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in percussion instruments with emphasis on teaching techniques, methods, and materials.

263E Trumpet Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in trumpet with emphasis on teaching techniques, methods, and materials.

263F Horn/Trombone Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in horn and trombone with emphasis on teaching techniques, methods, and materials.

263G Euphonium/Tuba Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in euphonium and tuba with emphasis on teaching techniques, methods, and materials.

263H Flute/Saxophone Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in flute and saxophone with emphasis on teaching techniques, methods, and materials.

263I Clarinet Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in clarinet with emphasis on teaching techniques, methods, and materials.

263K Double Reed Methods and Materials (2)

Prereq: soph in music education/music therapy. Instruction in double reed instruments with emphasis on teaching techniques, methods, and materials.

362 Teaching Instrumental Music in the Elementary and Middle School (3)

Prereq: jr standing in music education. A study of procedures for planning, implementing, administering, and evaluating instrumental music programs in elementary and middle schools. Also included is a survey of appropriate teaching materials and application of current technology.

362L Teaching Instrumental Music in the Elementary/Middle School—Laboratory Band (1, max 4)

Prereq: jr standing in music education. Prepares the prospective instrumental music educator for competence and adequacy in executing an ensemble music rehearsal at the elementary/middle school level. Items covered include conducting, personnel, and score preparation.

363 Secondary School Instrumental Methods and Materials (3)

Prereq: jr standing in music education. Literature and rehearsal techniques for secondary school bands and orchestras, including administration of the high school instrumental music program.

364 Secondary School Vocal Techniques and Materials (3)

Prereq: jr standing in music education. (spring) Literature and rehearsal techniques for high school choral groups.

366 Teaching of Music in the Elementary Grades (3)

Prereq: jr standing in music education or music therapy. (fall) Materials and methods for elementary music. For music majors only.

366A Introduction to Orff Schulwerk (2)

Introduction to music, materials, instruments, and pedagogy used in Orff teaching.

366B Early Childhood Music Education (3)

Prereq: jr standing in music education. Introduces music majors to the methods and materials for teaching music to preschool children.

464 Marching Band Techniques (2)

Prereq: jr standing in music education. (spring) Techniques for preparation of high school and college marching band performance.

465 Jazz Ensemble Methods (2)

Prereq: jr standing in music education. Methods of organizing and implementing jazz ensemble programs in secondary schools. Includes survey of appropriate materials.

468 General Music in the Junior High School (3)

Prereq: jr standing in music education. (winter) Materials and methods; listening program; changing voice.

Music History and Literature**120 Exploring Musical Styles (3) (2H)**

Prereq: nonmusic major. Development of listening skills for understanding elements of musical style in historical perspective and significance of music as fine art.

124 Language of Rock Music (3)

Examines birth, growth, and development of rock music through its acceptance as art form with significant influence on youth culture and resulting social implications.

125 Introduction to Music History and Literature (4) (2H)

(fall) Survey of musical forms, styles, performance media (including jazz and non-Western) from Gregorian era to present.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the Schools of Comparative Arts, Music, Dance, and Theater with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for CA 150, DANC 150, or THAR 150.

321 History and Literature of Music (3)

Prereq: 103, 125. History of music with survey of musical literature to 1600. No credit to those with credit for CA 321.

322 History and Literature of Music (3)

Prereq: 103, 125. History of music with survey of musical literature, 1600–1750. No credit to those with credit for CA 322.

323 History and Literature of Music (3)

Prereq: 322. History of music with survey of musical literature, 1750 to present. No credit to those with credit for CA 323.

421A Literature of Choral Music (3)**421B Literature of Piano Music (3)****421C Literature of Chamber Music (3)****421D Literature of Orchestral Music (3)****421E Literature of Organ Music (3)****421F Literature of Opera (3)****421G Literature of Band Music (3)**

427 Folk Music in the United States (3)
Introduction to selected types of folk music in U.S.

428 Jazz History (3)

Study of jazz styles to 1970.

Independent Studies in Music**414 Senior Thesis (2)**

Prereq: sr. Preparation of senior project.

418A* Sr. Thesis I (2)

Prereq: Sr.; 8M5105, BMS114 or 8M5116; no credit if 414. Independent research in music theory or music history, or major creative work in music composition, working toward a senior-level thesis or composition final project. *Tier III equivalent course, but both 418A and 418B must be taken to receive Tier III equivalent credit.

418B* Sr. Thesis II (2)

Prereq: Music 418A; no credit if 414. Independent research in music theory or music history, or major creative work in music composition, completing a Senior thesis. Continuing MUS 418A. *Tier III equivalent course, but both 418A and 418B must be taken to receive Tier III equivalent credit.

498 Independent Project (1–6)**499 Independent Readings in Music (1–12)****Music Theory and Composition****100 Introduction to Music Theory (3) (2H)**

Prereq: nonmusic major. Introduction to staff, pitch, and rhythmic notation, chords, pop music notation, etc.

101 Music Theory I (3)

Prereq: music theory placement exam. Melodic, harmonic, and rhythmic principles of music and its notation. 5 days per wk.

101A Music Theory (3)

Prereq: nonmusic major, ability to read music. Melodic, harmonic, and rhythmic principles of music and its notation.

102 Music Theory II (3)

Prereq: C or better in 101. Continuation of 101. See 101 for description.

102A Music Theory (3)

Prereq: 101A, nonmusic major. Continuation of 101A. See 101A for description.

103 Music Theory III (3)

Prereq: C or better in 102. Continuation of 101 and 102. See 101 for description.

104 Dictation and Sight Singing I (1)

Prereq: music theory placement exam. Acquisition of skills in the aural perception and reading of melodic, harmonic, and rhythmic musical structure. Should be taken concurrently with 101.

105 Dictation and Sight Singing II (1)

Prereq: 104 with a minimum grade of C. Should be taken concurrently with 102. See 104 for description.

106 Dictation and Sight Singing III (1)

Prereq: 105 with a minimum grade of C. Should be taken concurrently with 103. See 104 for description.

178 Computer Skills for Musicians (2)

Provides a basic overview of computer technology and terminology and introduces various software tools specifically for musicians.

178A Computer Skills for Musicians, Nonmajors (2)

See 178 for description.

179 Technology for Music Educators (2)

Prereq: 178. Provides the prospective music educator with technology skills, knowledge of software, and methods for using technology in the music classroom.

201 Music Theory IV (3)

Prereq: 103 with a minimum grade of C. Harmonic and contrapuntal practices of 18th, 19th, and 20th centuries, including structural analysis of small and large forms.

202 Music Theory V (3)

Prereq: 201 with a minimum grade of C. Continuation of 201. See 201 for description.

203 Music Theory VI (3)

Prereq: 202 with a minimum grade of C. Continuation of 201 and 202. See 201 for description.

204 Dictation and Sight Singing IV (2)

Prereq: 106 with a minimum grade of C. Should be taken concurrently with 201.

205 Dictation and Sight Singing V (2)

Prereq: 204 with a minimum grade of C. Continuation of 204.

206 Dictation and Sight Singing VI (2)

Prereq: 205 with a minimum grade of C. Continuation of 204 and 205. See 204 for description.

304 Instrumentation (3)

Prereq: 203. (fall) Technical characteristics of instruments of band and orchestra. Arranging for small ensembles.

305 Orchestration I (3)

Prereq: 203, 304. (winter) Scoring for instrumental ensembles with emphasis on intra- and cross-choir scoring. Writing of transcriptions and score reductions.

306 Orchestration II (3)

Prereq: 305. (spring) Continuation of 305. See 305 for description.

307 Choral Arranging (3)

Prereq: 203. Arranging for standard vocal ensembles with and without accompaniment.

308 Composition, Nonmajor (2)

Prereq: Non-composition major; 203, 206. Introduction to 20th-century compositional techniques. Writing smaller compositions.

309 Composition, Major (2)

Prereq: Composition major. See 308 for description.

402A Styles I (3)

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of Medieval and Renaissance music.

402B Styles II (3)

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of 19th century music.

402C Styles III (3)

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of 20th-century music.

405A Jazz Theory I (3)

Prereq: 203, 206, keyboard skills as determined by instructor. Harmonic vocabulary, notational systems, and chord progressions in traditional jazz.

405B Jazz Theory II (3)

Prereq: 405A. Continuation of 405A. See 405A for description.

407A Counterpoint I (3)

Prereq: 203, 205. (offered alternate years) Analysis and composition in sacred style of the 16th century.

407B Counterpoint II (3)

Prereq: 203, 205. (offered alternate years) Analysis and composition of 18th-century contrapuntal forms.

407C Counterpoint III (3)

Prereq: 203, 205. (offered alternate years) Continuation of 407B.

410B Composition (2)

Prereq: 312, electronic comp. only. Original composition in electronic medium for tape alone, live electronic instruments, or conventional instruments with electronic tape.

413 Introduction to Electronic Music (3)

Prereq: 102A, 141A, or music major. History, theories, techniques, and aesthetics of electronic music.

414 Senior Thesis (2)

Prereq: sr. Preparation of senior project.

415 Microcomputer Applications in Music Production (3)

Prereq: 413. Using various MIDI and digital audio applications running on microcomputers to produce a series of small projects in electronic music.

416 Project in Electronic Music (3)

Prereq: 415. Creating a major project using MIDI synthesizers and software and/or digital audio.

416A Advanced Projects in Electronic Music (3)

Prereq: approved project proposal, 416. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. An electronic music composition will be produced for public performance.

416B Advanced Recording Studio Techniques (4)

Prereq: 416. Instruction in operating a 16-track recording studio. Topics including advanced miking techniques, sound processing, mixing, and SMPTE time code synchronization on a 16-track recorder.

417 Advanced Digital Synthesis (4)

Prereq: 415. Concepts of digital sound synthesis primarily using the Synclavier system. Topics include advanced FM synthesis, additive synthesis, sampling, sequencing, and SMPTE time code synchronization on the Synclavier.

417A Advanced Digital Synthesis and Multi-track Projects (4)

Prereq: approved project proposal, 416B, 417. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. Supervision and guidance for working on creative electronic projects using the Synclavier and the 16-track recording studio.

Music Therapy**180 Music Therapy Practicum I (1–2)**

Prereq: fr in music therapy. Selected field experience in approved clinical facilities; field evaluation of student.

181 Introduction to Music Therapy (3)

(fall) Introduction to clinical practice of music therapy; clinical observation.

182 Recreational Music Instruments and Materials (3)

Prereq: music major. Guitar and nonsymphonic classroom instruments; special instrumental methods for disabled.

280 Music Therapy Practicum II (1-3)

Prereq: soph in music therapy. Selected field experiences in approved clinical facilities; field evaluation of student

281 Observation, Evaluation, and Research in Music Therapy (3)

Prereq: soph. (spring) Observation and evaluation skill development through classroom videotape, and field data collection and analysis; tests and evaluations; research methods and their application to clinical investigations. 2 lec, 1 lab.

282 Music Therapy Activities for Classroom and Clinic (3)

Prereq: soph. (winter) Development of skills in treatment planning and application including activity design and analysis for problems in all clinical areas.

380 Music Therapy Practicum III (1-3)

Prereq: jr standing in music therapy. Selected field experiences in approved clinical facilities; field evaluation of student.

381 Psychological Foundations of Music (3)

Prereq: jr standing in music therapy/music education. Basic study of acoustics, ear and hearing, and psycho-socio-physiological process involved in music behavior.

382 Psychological Foundations of Music II (3)

Prereq: 381. Theory of music therapy, survey of current literature and trends in music therapy; influence of music on behavior, physiology, emotions, learning, and work performance; experimental research required

480 Music Therapy Practicum IV (1-3)

Prereq: sr in music therapy. Selected field experience in approved clinical facilities; field evaluation of student.

481 Music Therapy Principles and Techniques I (3)

Prereq: jr standing in music therapy. Problems of exceptional children and therapist strategies and techniques for remediation; terminology; treatment settings.

482 Music Therapy Principles and Techniques II (3)

Prereq: 481. Problems in psychiatry and rehabilitation; therapist strategies and techniques for remediation; terminology; treatment settings; traditional and current psycho-therapeutic and behavioral approaches.

483 Music Therapy Principles and Techniques III (3)

Prereq: 482. Program development process for selected clinical populations; administration of music therapy program.

489 Clinical Training in Music Therapy (1)

Prereq: 483. Six months as full-time music therapy intern at AMTA-approved clinical training facility following completion of sr yr.

Nursing

Associate's Degree Program (NURS)

The following courses for the A.A.S. in nursing are available on the Chillicothe, Southern, and Zanesville campuses:

110 Foundations of Nursing I (4)

Prereq: admission to AD nursing program. Designed to introduce the beginning nursing student to the concepts that form the foundation of associate degree nursing. Students are introduced to nursing as a caring profession. Opportunities will be provided for the student, as a beginning nursing care provider, to develop skills in critical thinking through the application of the nursing process and in the implementation of selected nursing techniques. Emphasis will be placed on the three roles of the AD nurse as they relate to the nursing care of the adult.

111 Foundations of Nursing II (4)

Prereq: C or better in 110, 115, 120, 130; BIOS 130; CHEM 121. Continuation of 110 with increased emphasis on integrating the concepts of caring, critical thinking, and the three roles of the AD nurse. The nursing process continues to be the framework for assisting clients throughout the lifespan.

115 Communication in Nursing (1)

Prereq: admission to AD nursing program. Explores the concepts of effective communication and the application of the teaching/learning process with clients across the lifespan. A caring therapeutic nurse/patient relationship depends upon effective communication. As a teacher, the nurse addresses the nursing roles of communicator, direct patient care provider, and manager of clients with safety, physiological, psychosocial, or health promotion/learning needs. Critical thinking skills and effective communication are required by the nurse to successfully meet the learning needs of the client.

120 Assessment of the Middle and Older Adult (2)

Prereq: admission to AD nursing program. Focuses on the assessment of environmental safety, level of physiological and psychosocial integrity, and health promotion and maintenance practices of middle to older adult. Nursing process is introduced as a cornerstone of professional nursing practice. Nursing assessment is emphasized through the direct care role. The components of assessment include a deliberate and systematic collection, validation, and patterns of identification of data from a variety of sources. Critical thinking and caring are essential for effective nursing assessment. Assessment activities will occur in simulated settings.

121 Assessment of the Neonate through Young Adult (2)

Prereq: C or better in 110, 115, 120, 130; BIOS 130; CHEM 121. Focuses on the assessment of environmental safety, level of physiological and psychosocial integrity, and health promotion and maintenance practices of the neonate through younger adult. Nursing process is introduced as a cornerstone of professional nursing practice. Nursing assessment is emphasized through the direct care role. The components of assessment include a deliberate and systematic collection, validation, and patterns of identification of data from a variety of sources. Critical thinking and caring are essential for effective nursing assessment. Assessment activities will occur in simulated settings.

130 Pharmacology in Nursing I (1)

Prereq: admission to AD nursing program. Assists the student in making sound nursing judgments associated with medication therapy. Basic principles of drug administration are taught to enable the student to think critically and to administer medications in a safe and caring manner. Emphasis is on nursing implications of common drug therapy to adult populations. The student will learn to administer non-parenteral medication with concern for safety, precision, and attention to important physiological factors. Simulations will occur in the campus laboratory.

131 Pharmacology in Nursing II (2)

Prereq: C or better in 110, 115, 120, 130; BIOS 130; CHEM 121. Builds on 130. Students will learn the injectable methods of drug administration. Emphasis is on nursing implications of drug administration across the life span. Simulations will occur in the campus laboratory.

132 Pharmacology in Nursing III (2)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Enables the student to make sound nursing judgments associated with medication therapy across the lifespan. Principles of initiating and delivering medications by the IV route are taught. Advanced topics to be covered are care of clients with central lines, administration of blood products, TPN, and chemotherapy. Simulations will occur in the campus laboratory.

210 Health Alterations I (7)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on nursing care related to acute and chronic alterations in the physiological needs of nutrition, fluid balance, elimination, oxygenation transport, and regulation. The student will learn to function as a member within the discipline of nursing, as a provider of care, and as a manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being.

211 Health Alterations II (7)

Prereq: C or better in 210, 132; BIOS 201. Focuses on nursing care related to acute and chronic alterations in the physiological needs of oxygenation perfusion and ventilation. The

student will continue to develop as a member within the discipline of nursing, and as a provider and manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being

212 Health Alterations III (7)

Prereq: C or better in 211, PSY 101. Focuses on nursing care related to acute and chronic alterations in the physiological needs of movement, coordination, cognition, sensory function, and immunity. The student will refine responsibilities while functioning as a member of the discipline, provider, and manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being

220 Maternal, Newborn, and Women's Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Emphasizes the use of critical thinking and caring as a foundation for the AD nurse in delivering care to the childbearing client and to women with alterations in reproductive health. The student will function as a member within the discipline of nursing as a provider/manager of care and promoter of health and well-being.

230 Mental Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on the roles of the AD nurse as a member within the discipline of nursing and as a provider and manager of care for children, adolescents, and adults with mental and emotional problems. Emphasis will be placed on establishing a therapeutic relationship to assist individuals and families to achieve adaptation, recovery, and growth by working through alterations in psychosocial needs. The nurse will use critical thinking skills to promote mental health.

240 Child and Adolescent Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on the roles of the AD nurse as a member within the discipline of nursing, provider of care, and manager of care in providing care for infants, children, and adolescents with health alterations. Emphasis will be placed on establishing a caring relationship between the child, family, and nurse. The nurse will use collaboration, communication, and critical thinking skills to promote health and well-being.

260 Transition to Nursing Practice (10)

Prereq: C or better in 212, 220, 230, 240; SOC 101. Focuses on facilitating a transition to entry-level nursing. This capstone course further refines critical thinking, caring of self and others, and the roles of the nurse in providing care across the lifespan. Topics such as client care environment, managing client, managing others, and professional development will be included.

290A-Z Current Issues in Nursing (1-5, max 15)

Prereq: perm. Series of elective short courses for nursing students at OU-Zanesville. RNs and allied health professionals from the local area may enroll.

291A-D Current Issues in Nursing (1-5, max 5)

Prereq: perm. See 290A-Z for description.

Baccalaureate Program for RNs (NRSE)

300 Transitions in Nursing (5)

Prereq: B.S.N. major or school nurse. Focus on issues related to transition from technical to professional nursing. History and development of nursing as a profession; professional practice and the nursing process; nursing theories; nursing research; general systems theory; role theory; Ohio University's School of Nursing's philosophy and conceptual framework. 5 lec.

303 Health and Safety in Early Childhood (3)

Prereq: HCCF 160 or PSY 273. Health and safety knowledge and skills needed in working with children under the age of five years. Includes communicable disease, first aid, environmental safety, and child abuse content. 3 lec.

305 Introduction to School Nursing (4)

Prereq: 300. Historical overview of school nursing in the U.S., plus current responsibilities of school nurse in implementing a school health program. 4 lec

310 Health Appraisal I (4)

Prereq: 300 or concurrent. Focus on developing cephalocaudal nursing assessment skills and the ability to draw valid inferences from the data collected. 3 lec, 3 lab.

315 Pain Management for Nursing (4)

Prereq: licensed RN; CS 120 or equivalent. Assists RNs in moving from historical perspective of pain management to current concepts underlying the pathophysiology and treatment of pain. Pharmacological and nonpharmacological approaches to acute and chronic pain management addressed from holistic client and family perspectives. This course may be taught on the Internet. 4 lec.

325 Health Interventions in Nursing (5)

Prereq: 300 or concurrent. Concept of health and its relationship to nursing intervention strategies. Theoretical and practical aspects of teaching/learning and counseling emphasized. 5 lec.

330 Family Nursing (4)

Prereq: 300 or concurrent. Focus on nursing care of family system throughout the life cycle. Synthesis of family theory and application of the nursing process to families. 3 lec., 3 lab.

335 Ethical and Legal Issues in Nursing (4)

Prereq: 300 or concurrent. Analysis of the relationships between ethics and the law with close attention given to the issues and decisions that impact professional nursing practice. 4 lec.

340 Community Health Nursing (4)

Prereq: 300 or concurrent. Nursing care of aggregate systems within a community. Topics include community health nursing roles and basic concepts of community health. Implementation of population focused care through the nursing process, collaboration, and interdisciplinary skills. 3 lec., 3 lab.

405 Research: Critique and Methodology (4)

Prereq: 300 or concurrent; PSY 120 or 221 or MATH 251 or Q8A 201 Research in nursing practice. Topics include interrelationships among theory, practice and research; theory and science in nursing; nursing practice models; steps in the research process; critiquing of current research; development of a research proposal. 4 lec.

415 Restorative Nursing (4)

Prereq: 405 or concurrent. Nursing care of individuals, families, and groups experiencing alterations in health and the responses to those changes throughout the life cycle. Concepts addressed include loss, pain, crisis, coping, quality of life. Development of clinical learning objectives and strategies for NRSE 425. 4 lec.

416 Management Issues in Nursing (4)

Prereq: 300 or concurrent. Nursing management through use of a systems approach. Leadership models and behavior at various organizational levels discussed. Critical management strategies introduced. 4 lec.

425 Clinical Applications in Nursing (4)

Prereq: 415. Examination of selected nursing situations and independent clinical professional nursing roles. 3 lec, 3 lab.

445 Strategic Planning in Nursing Care (4)

Prereq: 405, 416, 425. Application of strategic planning concepts to professional nursing practice. Topics addressed are assessment of organizational system and implications for change; accountability and quality assurance; power and influence. Active involvement as change agent and implementation of planned change project. Clinical experience in a variety of settings. 3 lec, 3 lab.

455 Excellence in Nursing (4)

Prereq: sr., 40 hrs of NRSE 300/400 courses. Synthesis course designed to enhance student's knowledge of professional nursing. Past and present issues and trends in nursing examined. Emerging trends and futuristic nursing studied. Content will vary depending upon student needs and interests as well as events occurring in discipline of nursing. *Approved Tier III equivalent.* 4 lec.

461A School Nurse Seminar: Early Childhood (1)

Prereq: 305; 461C concurrent; school nurse. Health care issues in school settings that impact children between the ages of 3 and 8 years (preschool-third grade). 1 lec.

461C School Nurse Practice: Early Childhood (4)

Prereq: licensed RN, malpractice insurance. Practice as a school nurse in school setting with children between the ages of 3 and 8 years. Learner will work with a preceptor who is a certified/licensed school nurse. 12 lab.

462A School Nurse Seminar: Middle Childhood (1)

Prereq: 305; 462C concurrent; school nurse. Health care issues in school settings that impact children between the ages of 9 and 13 years (grades 4-8). 1 lec.

462C School Nurse Practice: Middle Childhood (4)

Prereq: 305; 462C concurrent; school nurse. malpractice insurance. Practice as a school nurse in elementary and middle schools (grades 4-8). Learner will work with a preceptor who is a certified/licensed school nurse. 12 lab.

463A School Nurse Seminar: Late Childhood (1)

Prereq: 305; 463C concurrent; school nurse. Health care issues in school settings that impact children between the ages of 14 and 20 years (grades 9-12 and early college). 1 lec.

463C School Nurse Practice: Late Childhood (4)

Prereq: licensed RN, malpractice insurance. Practice as a school nurse in secondary and post-secondary schools. Learner will work with a preceptor who is a certified/licensed school nurse. 12 lab.

490 Independent Study (1-5)

Prereq: perm. Student chooses a topic of specific interest with the assistance of a faculty member.

491 Current Topics (1-5)

Prereq: Ohio RN licensure.

492A-2 Special Topics (1-4)

Prereq: perm. Intensive study of selected topics in nursing when significant professional issues arise.

Office Technology (OTEC)

The following courses for the A.A.B. in office technology are available on the Chillicothe, Lancaster, and Southern campuses. Some elective courses are unique to a particular campus. Under University College, see the Colleges and Curricula section for the list of required courses.

121 Keyboarding I (4)

Introduction to touch keyboarding system with emphasis on correct techniques, mastery of keyboard, typical business correspondence, tabulation, and reports.

122 Keyboarding II (4)

Prereq: 121. Emphasis on formatting problems and keyboarding speed building. Production work involves tabulations, reports, correspondence, and business forms.

123 Keyboarding III (4)

Prereq: 122. Advanced keyboarding problems, techniques, knowledge, and skills involved in production keyboarding work using computers. Designed to acquire maximum in production.

130 Business Communication I (3-4)

Basic English grammar review with emphasis on word usage, sentence structure, paragraph development, capitalization, and punctuation for more effective business writing.

141L Legal Terminology (2)

Prereq: 121. Intensive course of study in legal terminology and vocabulary including definitions, usage, derivations, and spelling.

141M Medical Terminology (2)

Prereq: 121. Structure of medical words and terms. Emphasis on spelling and defining commonly used prefixes, suffixes, root words, and their combining forms.

171 Administrative Procedures I (3-4)

Prereq: 121. Enhancement of skills as they relate to the world of work.

171L Legal Support and Procedures I (3)

Prereq: 121. Enhancement of skills as they relate to the world of legal work.

171M Medical Support and Procedures I (3)

Prereq: 121. Enhancement of skills as they relate to the world of medical work.

172 Administrative Procedures II (4)

Prereq: 171. Continuation of 171. Instruction in current office practices as well as critical thinking and problem solving skills, including business protocol, professional development, telecommunications, and experiences in general office work expectations.

172L Legal Support and Procedures II (3)

Prereq: 171L. Emphasizes machine transcription utilizing complete production units concerning legal correspondence and documents.

172M Medical Support and Procedures II (3)

Prereq: 171M. Emphasizes machine transcription utilizing complete production units concerning medical correspondence and documents, such as case histories, articles, and hospital reports.

189 Independent Study (1-5, max 10)

Prereq: perm. Studies in selected subject areas related to office technology field. May be repeated up to 5 credit hours.

200 Desktop Publishing I (3)

Prereq: 121 recommended. Develops skill in using desktop publishing software. Covers publishing information, graphic design basics, and will prepare students to produce newsletters, brochures, catalogs, etc., that are of professional quality.

201 Desktop Publishing II (3)

Prereq: 200. Continuation of 200. Advanced applications using desktop publishing.

221 Dictation/Transcription (4)

Prereq: 121 and 130. Development of machine transcription skills for taped dictation.

225 Communication Processing I (3-4)

Prereq: 121 or concurrent. Introduction to professional communication processing. Emphasis will vary by campus.

226 Communication Processing II (3-4)

Prereq: 225. Continuation of 225. Emphasizes advanced applications.

227 Communication Processing III (3)

Prereq: 226. Designed to introduce students to a variety of software—including integrated hardware and software evaluation processes—using the microcomputer.

230 Business Communication II (4)

Prereq: 130 or ENG 150 or higher placement. Extensive and detailed practice in written communication for business, industry, and professions. Involves composition of letters, memoranda, and reports.

231 Business Calculations (4)

Prereq: MATH 101, 102, or higher placement. Practical mathematical calculations typical of a business situation. Concentration on problem-solving techniques necessary to perform calculations accurately and efficiently.

248 Administration of Record Systems (3)

Controlling cost and improving effectiveness of records and information management within business enterprises. Includes control of record creation, maintenance, and disposition through systems analysis; forms management, protection methods.

258 Stress Management for Office Personnel (3)

Involves recognition of stress, how to handle stress within yourself, how to assist office personnel in dealing with stress, and implications of time in its relationship to stress.

267 Office Supervision (4)

Prereq: 122, 172. Involves principles and practices of management of flow of information within enterprise. Includes basic management functions of planning, controlling, organizing, and coordinating as applied to office services, physical facilities, systems and procedures, work measurement and standards, and business information systems. Emphasis on matters of personnel.

268 Information System Design (3)

Effective use of management techniques and equipment in meeting informational needs of business and industry. How to design optional system utilizing feasibility studies, etc., and how to implement design.

288 Information System Equipment Selection—Acquisition Seminar (2)

Remodeling or designing new facilities, including space management, as well as source, cost, and justification for special equipment and furniture. Use of consultants and feasibility studies reviewed.

290 Seminar (4)

Prereq: perm. Special topics and problems encountered in field experience discussed. Opportunity to share ideas and experiences and to find possible answers to questions arising in actual working situations.

291 Special Topics (1-5, max 10)

Prereq: perm. Projects concerning office technology field explored on one-to-one basis with instructor.

298 Practicum in W/P Supervision (2)

Experiences in supervision of word/data processing labs or centers. Responsibilities include assisting W/P trainees, demonstrating equipment to classes/visitors, producing complex documents, designing forms, and learning/developing new systems.

299 Internship (1-5, max 10)

Prereq. 225 and perm. Practical field experience or in-class office simulation.

Ohio Program of Intensive English (OPIE)

Credit hours listed for OPIE are not applicable to degree requirements. For English for nonnative speakers applicable to degree requirements, see ENG 150A, 151A in English under ENG 150, 151.

21 Elementary Core Skills (12)

Prereq: perm. 12-hour core component of a full-time (20 hours/week) course in English as a second language for students at the elementary level whose ultimate aim is academic study. Core Skills class focuses on basic grammar and communication skills. Writing sometimes included. Focus is on American English for effective communication both inside and outside the classroom.

22 Elementary Listening/Speaking (4)

Prereq: perm. This course is one component of full-time study of English as a second language for students at the elementary level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in basic listening and speaking for everyday communication.

23 Elementary Reading/Writing (4)

Prereq: perm. This course is one component of full-time study of English as a second language for students at the elementary level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in reading and vocabulary. Students build their reading skills by learning reading strategies and practicing with readings and exercises from the textbook. Students build their vocabulary by learning new words and learning to determine the meaning of words from context clues and word analysis. Students work to develop sentence-level writing skills and may begin practice writing simple paragraphs.

26 Intermediate Core Skills (12)

Prereq: perm. Twelve-hour core component of a full-time (20 hours/week) course in English as a second language for students aiming at academic study. Students at this level do not take academic courses. Paragraph level writing competency is developed as students expand grammatical knowledge and explore the process of writing. Instruction and practice includes an introduction to the three-paragraph essay.

27 Intermediate Listening/Speaking (4)

Prereq: perm. This course is one component of full-time study of English as a second language for students at the intermediate level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in listening and speaking

28 Intermediate Reading/Vocabulary (4)

Prereq: perm. This course is one component of full-time study of English as a second language for students at the intermediate level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in reading

and vocabulary. Students build their reading skills by learning reading strategies and practicing with readings and exercises from the textbook. Students build their vocabulary by learning new words and learning to determine the meaning of words from context clues and word analysis. This course includes instruction and practice in using an English-only dictionary

31 Advanced Core Skills A (12)

Prereq: perm. The Advanced CORE Skills A is a 12-hour CORE component of a full-time (20 hours/week) course of study in English as a second language for students preparing for academic study in an American university. Students incorporate understanding of grammatical structures, appropriate vocabulary, and organization into formally developed essays. More emphasis is placed on rhetorical modes and developing editing skills. Reading comprehension and lexical skill development is emphasized along with the improvement of reading rate. Students learn to synthesize the various skills and strategies to which they have been exposed. Listening and speaking skill activities rely more heavily on academic task simulations and university-level expectations.

32 Advanced Core Skills B (12)

Prereq: perm. The Advanced CORE Skills B is a 12-hour CORE component of a full-time (20 hours/week) course of study in English as a second language for students preparing for academic study in an American university. Students incorporate understanding of grammatical structures, appropriate vocabulary, and organization into formally developed essays. More emphasis is placed on rhetorical modes and developing editing skills. Reading comprehension and lexical skill development is emphasized along with the improvement of reading rate. Students learn to synthesize the various skills and strategies to which they have been exposed. Listening and speaking skill activities rely more heavily on academic task simulations and university-level expectations

33 Academic Listening/Note-taking/Speaking (4)

Prereq: perm. This OPIE part-time level elective class aims to improve students' listening, note-taking, and speaking skills needed for successful academic work. Class time is spent on listening to academic mini-lectures, note-taking, discussions, and oral presentations.

34 Academic Reading Skills (4)

Prereq: perm. Provides students with both an understanding of the reading process and intensive practice in developing advanced-level reading strategies and skills. Designed to improve reading comprehension, reading speed, academic vocabulary, and awareness of text structures and rhetorical patterns.

41 American Culture (4)

Prereq: perm. A general overview of American culture to increase awareness and understanding of the cultural values of the United States and other cultures. Provides cross-cultural activities for small group and class discussions, and topics for oral presentations, research, and writing projects. Academic English skill-building through reading, writing, listening and speaking activities, vocabulary study, summarizing, research and oral reports, and group activities.

42 Stories in the News (4)

Prereq: perm. Students in this four-hour per week course will work to improve reading, writing, listening, and speaking skills while they study and report on a) current news stories and b) contemporary world issues.

43 U.S. Cities: New York and Los Angeles (4)

Prereq: perm. Through instruction in the history and cultural geography of two U.S. cities: New York City and Los Angeles, students improve their academic English language skills in grammar, reading, writing, listening, and speaking. Students practice language skills through discussion, oral presentations, written assignments, journal and essay writing, and completing reading logs. Students also learn and develop research skills by accessing and gathering information from a variety of sources.

44 Native Americans of the U.S. (4)

Prereq: perm. This course will help students further develop all English language skills while

learning about Native American history, culture, and current social and political issues. Students will gather information from a variety of sources including newspaper and magazine articles, the Internet, videotapes, guest speakers, and field trips; they will use this information in discussions, presentations and papers

46 Ecology and the Environment (4)

Prereq: perm. This course will help students further develop all language skills as well as learn about local ecology and worldwide environmental issues. Students will gather information from a variety of sources including newspaper and magazine articles, the Internet, videotapes, guest speakers, and field trips; they will use this information in discussions, presentations and papers.

47 English through Music (4)

Prereq: perm. This course is one component of either full-time or part-time study of English as a second language for students whose ultimate aim is full-time academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in listening/ speaking and reading while exploring American musical genres and American culture.

51 Academic Core Skills 1 (8)

Prereq: perm. Academic Core Skills 1 is a part-time integrated core in English as a Second Language for students who are also permitted to take one academic course. Eight hours of classroom instruction (two hours a day, four days a week) focus on the development of academic English language skills including reading and writing, study skills, and academic performance skills needed for success in an academic program in the U.S. Listening and speaking will also be addressed, and grammar will be addressed as needed.

52 Americans at Work (4)

Prereq: perm. This course focuses on improving students' academic reading, composition, and presentation skills by introducing them to work as a cultural phenomenon, to the history of work in the U.S., and to American cultural values and beliefs about work.

53 Adventures in Mythology (4)

Prereq: perm. Students in this course will work on improving their academic reading, writing, listening, and speaking skills through simulated academic study of mythology.

54 Public Speaking (4)

Prereq: perm. The Public Speaking Class develops speaking, listening, and presenting skills through discussion, demonstration, and extensive practice. This course is useful for both academic work and the workplace.

56 Academic Core Skills 2 (8)

Prereq: perm. Academic Core Skills 2 is a part-time level integrated core in English as a Second Language for students who are also permitted to take one or two academic courses simultaneously. Eight hours of classroom instruction (two hours a day, four days a week) are designed to provide students with high-level language skills development, with a specific focus on academic reading and writing skills, as well as academic performance and study skills. Students also work on academic listening and speaking skills.

57 Pronunciation thru Current Events (4)

Prereq: perm. This course will focus on improving the accuracy of students' speaking abilities. Students will have the opportunity to learn and practice the individual sounds, rhythm, intonation, and stress associated with spontaneous and planned spoken English. In addition, students will study current issues through the use of news-related listening materials and class discussions. These discussions of current events will provide the primary means for student improvement by enabling students to practice speaking in a relevant and engaging context.

58 College Vocabulary (4)

Prereq: perm. This course is designed to engage students in improving their vocabulary and using it accurately and fluently for academic purposes.

61 Academic Core Skills 3 (8)

Prereq: perm. This course is a part-time support course(s) in English as a Second Language for students who are also permitted to take two academic courses. Eight hours of classroom instruction (two hours a day, four days a week) are designed to provide students with high-level language skills development, with a specific focus

on academic reading and writing skills, as well as academic performance and study skills.

62 Intercultural Communication (4)

Prereq: perm. This course focuses on improving students' academic reading, composition, and presentation skills by introducing them to the fundamental concepts of intercultural and interpersonal communication and the problems of intercultural conflict.

64 Grammar (4)

Prereq: perm. Through this OPIE part-time level elective class, students will increase their ability to use a variety of grammatical patterns and structures to express original ideas, to edit written text, and to paraphrase, summarize, and synthesize information and ideas in order to perform extended academic tasks orally and in writing.

65 Composition (4)

Prereq: perm. Through this OPIE part-time level elective class, students will increase their ability to write about familiar or prepared topics (up to three typed pages) with some precision and sufficient support. They will increase their ability to synthesize, summarize and paraphrase information from articles and academic texts. Students will perform various academic writing tasks such as writing persuasive essays and integrating paraphrased or summarized sources into a text. They will increase their ability to use a variety of grammatical patterns and structures to express original ideas in writing.

66 Issues through Film (4)

Prereq: perm. Students in this five session per week course (ordinarily six hours of class) will work to improve speaking, reading, and writing as well as listening skills through a study of some of the traditional themes of USA cinema, and of movies that exemplify those themes.

67 Information Gathering (4)

Prereq: perm. This OPIE part-time level elective class on Information Gathering (Techniques for Gathering and Evaluating Research Information) aims at providing international students with basic and, in some cases, advanced level information gathering and evaluation skills while at the same time improving their English language ability, particularly in the areas of reading, listening/ speaking, and classroom interaction skills.

82 Oral Communication in Graduate Studies (3)

Prereq: perm. The goal of this course is to improve students' oral communication skills in English for success in the U.S. academic community. Students explore aspects of language, the U.S. academic culture, and strategies for effective discussion and presentation. Students will have the opportunity to learn and practice the individual sounds, rhythm, intonation, and stress associated with spontaneous and planned spoken English.

99 Special Studies (1-15)

Prereq: perm. Individual or small group independent or tutorial study classes set up to meet the needs of students unable to participate in standard classes. Content and objectives taken from standard classes but adapted to the individual or small group independent or tutorial method of delivery.

Operations (OPN)

298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

300 Principles of Operations (4)

Not open to Fr, Soph, or BBA students. Prereq: QBA 202 or PSY 221 or ECON 381 or COMS 301 or GEOG 271 or MATH 251. Examines how operations management provides a product or service with higher quality and at a lower cost than competition. Emphasis is on providing a conceptual understanding of the operations function, which includes: product/process design, facility location and layout, capacity planning, material and inventory management.

310 Principles of Operations (4)

Prereq: QBA 201 or PSY 221 or ECON 381 or COMS 301 or GEOG 271 or MATH 251. More

than any other function, operations provides an organization with the capability to compete successfully in the global marketplace. With proper operations management, the firm can provide a product or service of higher quality in less time and at less cost than the competition. Emphasis on conceptual understanding of the operations function and includes the following topics: product/process selection and design, facility location and layout, capacity, material and inventory management, quality, etc.

398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

497 Independent Research (1-4)

Prereq: written proposal and perm. Independent research. Course content determined by professor and student.

498 Internship (1-4)

Prereq: perm.

Philosophy (PHIL)

101 Fundamentals of Philosophy (4) (2H)

Survey of selected basic problems, concepts, and methods in philosophy.

120 Principles of Reasoning (4) (1M)

Basic concepts of logic and techniques for judging validity of arguments introduced. System for symbolizing arguments and deriving conclusions from premises employed. Some of following topics also covered: informal fallacies in reasoning, syllogistic or Aristotelian logic, Venn diagrams, truth tables. Most sections are traditional lecture/test format, some taught in computer-assisted format, others use self-paced approach.

130 Introduction to Ethics (4) (2H)

Discussion of classic and/or modern philosophical views of human values, ideals, and morality. Provides introductory survey of some main problems, concepts, and results of ethics including selected philosophers of past and present.

216 Philosophy of Science Survey (3) (2H)

Nontechnical survey of types, testing, and credibility of hypotheses; methods of experimental inquiry; measurement; laws, theories and their role in explanation, concept formation.

231 Philosophy of Sport (4)

Prereq: soph. Philosophical exploration into nature, meaning, purposes, values, and ideals of sport. Topics include goods and evils of competition, nature of sports experience, winning and losing, aesthetic and ethical dimensions of sport, ultimate athlete, scholastic athletics, philosophy of physical education, concept of sportsmanship, etc.

232 Philosophy of Art (4) (2H)

Conceptual analysis of common assumptions, attitudes, theories, and ideas about arts, their criticism, and appreciation.

235 Business Ethics (4)

Prereq: soph. Examination of moral reasoning as it pertains to institutions and practices of contemporary business. First half is devoted to basic ethical concepts and analysis of basis for acceptable ethical theory, investigation of role of government and society in their relationship to business, and value assumptions behind competing social and political systems business personnel encounter in today's global marketplace. Second half examines specific case studies.

240 Social and Political Philosophy (4) (2H)

Introduction to major philosophical theories concerning nature of social and political communities including those offered by Plato, Aquinas, Hobbes, Locke, Mill, and Rawls. Consideration of some significant specialized problems in social and political theory including distributive justice, civil disobedience, liberty, punishment, etc.

250 Philosophy of Mind (4)

Mind-body problem; concept of self; human-machine relation; problem of other minds.

260 Philosophy of Religion (4) (2H)

Problems in the nature of religion, existence and the nature of God; problem of evil, immortality, and religious language.

297T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall) 1st-yr tutorial studies in philosophy.

298T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter) 1st-yr tutorial studies in philosophy.

299T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring) 1st-yr tutorial studies in philosophy.

310 History of Western Philosophy: Ancient (5) (2H)

Significant ideas of representative Greek and Roman philosophers.

311 History of Western Philosophy: Medieval and Renaissance (5) (2H)

Augustine to Bruno and Campanella.

312 History of Western Philosophy: Modern (5) (2H)

17th and 18th century European philosophy.

314 19th Century European Philosophy (4) (2H)

Subjects selected from French, German, and British philosophers of 19th century.

320 Symbolic Logic I (4)

Techniques of modern symbolic logic.

330 Ethics (5)

Study focusing on specific philosopher, or one type of ethical or value theory.

331 Moral Problems in Medicine (4)

Prereq: soph. Philosophical investigation of complex moral problems engendered by modern medicine, e.g., death with dignity, human experimentation, allocation of scarce medical resources, birth defects, killing or letting die, informed consent, etc. Basic philosophical concepts underlying these problems explored, including autonomy, coercion, normality, naturalness, rights, justice, responsibility, personhood, etc.

332 Philosophy of Sex and Love (4)

Prereq: jr. Philosophical and evaluative investigation into subject of sexual love and Western morality. Topics include roles and relations between sexes, abortion, monogamy, sexual perversion, homosexuality, promiscuity, adultery, semantics of sex, etc.

333 Philosophy of Literature (4)

Prereq: jr. Examines nature of fictional literature as differentiated from other types of writing. Explores philosophical ideas within specific works of fiction, concentrating on problems of translating philosophical content into literary form, interpretation, belief, truth, and artistic integrity.

335 Environmental Ethics (4)

How should we value nature? What is important about it, and why? Is it important to us because caring for nature advances our interests, or because it is valuable in its own right? Do animals have special claims upon us? Should our primary concern be for individual organisms, or for species? This course will aim at thinking through some of the questions that surround the idea of valuing the environment in which we live, and understanding possible views as to the source and nature of that value.

350 Philosophy of Culture (5)

Philosophical studies of humankind as culture-creating being.

351 Philosophy of Language (4)

Prereq: 6 hrs in philosophy, including 120 or 320. Theories of meaning and reference and their philosophical significance, relations of meaning to verification and truth, and relationship between language and concepts.

358 Existentialism (4)

Prereq: 9 hrs in philosophy. Existential thought from Kierkegaard to Camus stressing such themes as freedom, existence, despair, authenticity, alienation, death, and revolt against system.

397T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (fall) 2nd-yr tutorial studies in philosophy.

398T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (winter) 2nd-yr tutorial studies in philosophy.

399T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (spring) 2nd-yr tutorial studies in philosophy.

412 Philosophy of Biology (5)

Prereq: BIOS 172 or PBIO 111. An analysis of such issues as the structure of theory in biology, whether biology differs from other sciences; whether species exist, natural selection, how taxonomy should be done, and whether biology raises any ethical issues.

413 Philosophy and Freudian Analysis (5)

Prereq: PSY 332 or 333. The philosophical and scientific presuppositions of Freudian psychology (including Freud's methodology) will be identified and subjected to rigorous philosophical analysis. Freud's early thought on hysteria, dreams, sexuality, and psychoanalysis will be emphasized. Recent attacks on the legitimacy of psychoanalysis will be examined. Alternative schemes for understanding human behavior will also be discussed.

414 Analytic Philosophy (5)

Prereq: 4 philosophy courses. Selected topics in contemporary Anglo-American philosophy.

416 Philosophy of Science (4)

Prereq: 3 philosophy courses. Selected problems in logic and methodology of sciences.

417 Philosophy of Logic (4)

Prereq: 320 or 502. Provides a survey of issues in the philosophy of logic. Topics include formal theories of truth, logical and semantical paradoxes, modal logic, conditionals, interpretations of quantifiers, and philosophical implications of Gödel's incompleteness theorems.

418 Plato (5)

Prereq: 4 philosophy courses, including 310.

419 Aristotle (5)

Prereq: 4 philosophy courses, including 310.

420 Symbolic Logic II (4)

Prereq: 320 or 502 or MATH 306 (or equiv.) or CS 300. Continuation of 320. Focuses on the completeness of first-order logic, Gödel's incompleteness theorems, axiomatic set theory, and Cantor's and Dedekind's theories of the infinite.

425 Philosophical Problems in Quantum Physics (4)

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. Interpretation and paradoxes of quantum theory. Topics include the problem of measurement, the Bohr-Einstein debates, Schrödinger's cat paradox, the Einstein-Podolsky-Rosen paradox, and Bell's Theorem and its implications.

426 Philosophy of Space and Time (4)

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. In addition to classical topics, issues in the philosophy of space and time that have been greatly influenced by the emergence of Einstein's theory of relativity will be discussed. Topics to be covered include the nature of geometry and its relation to the world, absolute vs. relational theories of space, time, and space-time, and Zeno's paradoxes of motion and extension. Contemporary and classical thinkers will be examined.

427 Philosophy of Mathematics (4)

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. An in-depth examination of a major work in the philosophy of mathematics or of a particular concept that plays a central role in mathematical philosophy, such as the concept of number, the concept of mathematical proof, and the concept of the mathematical infinite.

428 Continental Rationalism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Descartes, Spinoza, Leibniz.

429 British Empiricism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Locke, Berkeley, Hume.

430 Contemporary Ethical Theory (5)

Prereq: 4 philosophy courses, including 130, 240, 330, or 442. Significant current literature in selected topics of moral, social, political, and legal philosophy.

431 History of Aesthetic Theory (5)

Prereq: 4 philosophy courses. Readings from Plato to Dewey and relation of these theories to selected arts and recent criticism.

432 Problems in Aesthetics (5)

Prereq: 9 hrs philosophy, literature, or art. A variety of philosophical issues surrounding the arts

and aesthetics drawn from contemporary sources will be discussed. Topics include the nature of art, expression, interpretation, evaluation, and art and knowledge.

434 Metaethics (4)

Prereq: 4 philosophy courses including 130 or 240 or 430. The study of metaethics is the study of the nature of ethical or normative judgments. What are we doing when we make ethical judgments? Is it right to think that ethical judgments are capable of being true or false? If so, in virtue of what? We can also wonder about the nature of moral motivation. Does a judgment that something is morally wrong automatically entail that one has a motive not to do it? This course will be a survey of readings on these two questions.

438 Kant (5)

Prereq: 4 philosophy courses, including 312. Kant's Critique of Pure Reason with attention given to his ethical theory.

440 Contemporary Social Philosophy (5)

Prereq: 330 or 240 or 442 and 3 other philosophy courses. Consideration of any number of various issues in contemporary, social, political, and legal philosophy. Possible topics: theories of distributive justice, culpability, causality and responsibility, legal and moral rights, etc.

442 Philosophy of Law (5)

Prereq: 3 philosophy courses or perm. Consideration of nature and justification of law and examination of some specialized topics in philosophy of law, including ascription of responsibility, civil disobedience, theories of punishment, liberty, etc.

444 Philosophy of Marxism (5)

Prereq: 4 philosophy courses. Philosophical inquiry into classical and contemporary Marxist thought stressing Marx, Engels, Lenin, Stalin, Mao, and several contemporary Marxists such as Praxis group of Yugoslavia.

448 Pragmatism (5)

Prereq: 4 philosophy courses. Peirce, James, Dewey, and other American thinkers.

450 Theory of Knowledge (5)

Prereq: 4 philosophy courses, including 312. Critical examination of various views of what knowledge is and how it is attained.

451 Metaphysics (5)

Prereq: 4 philosophy courses, including 310 or 312. Discussion of basic philosophical issues such as: conceptual schemes and the external world, causation, universals, determinism and freedom, the nature of the mind, etc.

458 Contemporary European Philosophy (5)

Prereq: 4 philosophy courses, including 358 and 468. Phenomenology and existentialism as seen in Husserl, Heidegger, Scheler, Hartmann, Dilthey, Cassirer, Gebser, Ingarden, Sartre, Camus, Marcel, Merleau-Ponty, and Ricoeur.

468 Phenomenology (5)

Prereq: 4 philosophy courses, including 312. Method and philosophy of phenomenological movement from Husserl to Merleau-Ponty.

475 Chinese Philosophy (5)

Prereq: 4 philosophy courses, including 371. Major Chinese philosophers and schools of thought from earliest times to present.

476 Indian Philosophy (5)

Prereq: 4 philosophy courses, including 370. Classical Hinduism.

477 Buddhist Philosophy (5)

Prereq: 4 courses, including 371. (on demand) Abhidharma, Madhyamika, Yogacara, Zen, and other philosophical doctrines of Buddhism.

478 African Philosophy (5)

Prereq: jr. Critical examination of the question, debated today among African philosophers, whether traditional African thought systems should be regarded and developed as philosophical systems. Includes survey of most significant of these thought systems.

490 Senior Seminar (3)

Prereq: sr, 310, 312, 320. Survey of selected sub-fields of philosophy. Required of all majors in philosophy during the senior year.

491 Seminar in Philosophy (1-15, max 15)

Prereq: 5 philosophy courses. Selected problems.

492 Applied Ethics (5)

Prereq: 2 courses from 130, 235, 330, 331, 430. An examination of the relationship of applied ethics to ethics as a branch of philosophy, a survey of major areas within applied ethics (medical, business, journalistic, etc.), and a consideration of selected problems in each area.

497 Independent Reading (1-9, max 12)

Prereq: perm of chair.

497T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall) 3rd-yr tutorial studies in philosophy.

498T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter) 3rd-yr tutorial studies in philosophy.

499 Senior Thesis (3-15)

Prereq: perm. Must be enrolled in each of three senior quarters to achieve honors in philosophy. Research and writing of long philosophical paper.

499T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring) 3rd-yr tutorial studies in philosophy.

Physical Education

See Recreation and Sport Sciences—Physical Education Activity

Physical Therapy (PT)

259A Introduction to Physical Therapy (2) (fall, spring). Designed for those students who are considering physical therapy as a career option. Presentations and topics of discussion will attempt to bring the student to an understanding of the physical therapy profession and the requirements for entry into the profession. 2 lec.

259B Introduction to Physical Therapy Clinical Experience (3)

For students who are considering physical therapy as a career, presentations and direct observation of evaluation and treatment of patients through Therapy Associates will help identify the various roles and settings for physical therapists. 1 lec, 4 lab.

Physics and Astronomy
Astronomy (ASTR)**100 Survey of Astronomy (4) (2N)**

General introduction to astronomy, with emphasis on the structure of the universe beyond our solar system. Topics (chosen by instructor) may include historical astronomy, the sun, stars and galaxies, interstellar matter, black holes, the "Big Bang" theory, and the evolution of the universe. No prereq, but familiarity with basic algebra and geometry is beneficial. Students should enroll in PSC 100. 4 lec.

100D Moons and Planets: The Solar System (4) (2N)

General introduction to astronomy, with emphasis on our solar system and other planetary systems. Topics (chosen by instructor) may include historical astronomy, the sun, the surfaces, interiors, and atmospheres of the planets, comets, asteroids and meteor impacts, planets around other stars, and the origin of life. No prereq, but familiarity with basic algebra and geometry is beneficial. Students should enroll in PSC 100D. 4 lec.

140 Observational Astronomy Laboratory (1) (2N)

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Students should enroll in PSC 140. 2 lab.

200 Introduction to Planetary Science (3) (2S)

Prereq: 4 hrs PSC or GEOL or perm; MATH 113 or equiv; no credit for both ASTR 200 and PSC 200. An introduction to the physical processes

behind the formation and evolution of planets, moons, asteroids, and comets. Topics will include formation of the Solar System, planetary atmospheres and interiors, volcanism, meteor impacts, and cratering. Students should enroll in PSC 200.

205 Life on Other Worlds? (3) (2N)

Prereq: 4 hrs PSC; MATH 113 or equiv; no credit for both ASTR 205 and PSC 205. An exploration of ideas relating to the possibility that life exists elsewhere in the universe, both on planets and moons within our solar system, and within other planetary systems. The course begins by considering our planet's formation and the conditions which may have led to life appearing here, then moves outward. Students should enroll in PSC 205.

305 Fundamentals of Astrophysics (3)

Prereq: PHYS 253, MATH 263C. Physical foundations of astronomical observation and theory. Time and coordinate systems, orbits, celestial mechanics, radiation mechanisms, and spectra. Telescopes and instrumentation. Introduction to the physical properties of stars, galaxies, and interstellar matter. Overview of cosmological distance measurements and the "hot big bang" model.

310 Astronomy Laboratory (1-3)

Prereq: PHYS 305 and perm. Repeated enrollment. Telescope observations and other laboratory studies dealing with astronomy.

401 Stellar Astrophysics (3)

Prereq: 305, MATH 340, MATH 440. The physics of stellar atmospheres and interiors. Mathematical treatments of radiative transfer, hydrodynamics, and stellar structure; stellar atmospheres and spectra; stellar interiors; and nuclear energy sources. Stellar evolution, red giant stars, pulsating variables; physics of degenerate gases, white dwarfs, neutron stars, pulsars, black holes.

402 Galactic and Interstellar Astrophysics (3)

Prereq: 305, MATH 340 and 440. Structure and evolution of the Milky Way galaxy and the interstellar medium. Stellar populations and orbits of stars in the galaxy; galactic dynamics, evolution of the galactic disk and star clusters. Physics of the interstellar gas, absorption and emission processes, HI and HII regions, molecular clouds. Hydrodynamic instabilities, star formation; supernova explosions and shock waves.

403 Extragalactic Astrophysics and Cosmology (3)

Prereq: 305, MATH 340 and 440. Physics of galaxies and evolution of the universe. Dynamics of galaxy structure, formation, and interaction. Dark matter. Active galactic nuclei, radio galaxies, and quasars. Galaxy clusters and large-scale structure. Cosmological distance measurements, expansion of the universe. Introduction to general relativity; cosmological models, observational tests, cosmic microwave background. Primordial nucleosynthesis.

410 Observational Astrophysics (3)

Prereq: 305. Modern observational techniques and instrumentation. Planning and execution of observational programs; data acquisition, reduction, and analysis; presentation of scientific results. 2 lec, 2 lab.

450 Studies in Astronomy (1-3, arranged)

Prereq: 305 and perm.

Physical Science (PSC)

100 Survey of Astronomy (4) (2N)

General introduction to astronomy, with emphasis on the structure of the universe beyond our solar system. Topics (chosen by instructor) may include historical astronomy, the sun, stars and galaxies, interstellar matter, black holes, the "Big Bang" theory, and the evolution of the universe. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as ASTR 100. 4 lec.

100D Moons and Planets: The Solar System (4) (2N)

General introduction to astronomy, with emphasis on our solar system and other planetary systems. Topics (chosen by instructor) may include historical astronomy, the sun, the surfaces, interiors, and atmospheres of the planets, comets, asteroids and meteor impacts, planets around other stars, and the origin of life. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as ASTR 100D. 4 lec.

101 Physical World (4) (2N)

Prereq: no credit if 101L. Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec.

101L Physical World (5) (2N)

Prereq: no credit if 101. Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec, 2 lab.

105 Color, Light, and Sound (4) (2N)

Prereq: no credit if 105L. Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec.

105L Color, Light, and Sound (5) (2N)

Prereq: no credit if 105. Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec, 2 lab.

111 The Metric System (1)

Introduction to International (Metric) System of Units (SI) through lecture and laboratory experience. Topics include: history of and rationale for SI; SI and its rules for use; metric computation and conversion techniques. Not offered on Athens campus.

131 Nano-Science and Technology (4) (2N)

Introductory course covering an overview of the concept of scale and of novel phenomena that arise as a function of scale, instrumentation that allows probing systems on the nanoscale, fabrication methods that yield nanoscale geometries, and the influence of this emerging field in our current and future lifestyles. 4 lec.

140 Observational Astronomy Laboratory (1) (2N)

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as ASTR 140. 2 lab.

200 Introduction to Planetary Science (3) (25)

Prereq: 4 hrs PSC or GEOL or perm; Math 113 or equiv; no credit for both ASTR 200 and PSC 200. An introduction to the physical processes behind the formation and evolution of planets, moons, asteroids, and comets. Topics will include formation of the Solar System, planetary atmospheres and interiors, volcanism, meteor impacts, and cratering.

205 Life on Other Worlds? (3) (2N)

Prereq: 4 hrs PSC; MATH 113 or equiv; no credit for both ASTR 205 and PSC 205. An exploration of ideas relating to the possibility that life exists elsewhere in the universe, both on planets and moons within our solar system, and within other planetary systems. The course begins by considering our planet's formation and the conditions which may have led to life appearing here, then moves outward.

Physics (PHYS)

201 Introduction to Physics (5) (2N)

(fall, winter) 1st course in physics; open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, geological sciences, plant biology, and premedicine. Mechanics of solids and liquids. No credit for 201 after 251. 3 lec, 2 lab, 1 recit.

202 Introduction to Physics (5) (2N)

Prereq: 201 or 251. (winter, spring) No credit for 202 after 252 or 262. Continuation of 201. See 201 for description. Includes electricity, magnetism, heat, thermodynamics, waves, and sound. 3 lec, 2 lab, 1 recit.

203 Introduction to Physics (5) (2N)

Prereq: 202 or 252 or 262. (spring, fall) No credit for 203 after 253. Continuation of 201 and 202.

See 201 for description. Includes light, relativity, quantum, atomic, and nuclear physics. 3 lec, 2 lab, 1 recit.

210 Physics Seminar (1)

Provides overviews of classical mechanics, relativity, and contemporary physics. Films and current science news will be used to search for student interest in future study.

251 General Physics (5) (2N)

Prereq: C- or better in MATH 263A or 263B or 266A. Classical physics with calculus and vectors. Newtonian mechanics, rotational dynamics, gravitation. 3 lec, 2 lab, 1 recit.

252 General Physics (5) (2N)

Prereq: PHYS 251 and MATH 263B or 266B. Classical physics with calculus and vectors. Fluids, simple harmonic motion, wave mechanics and phenomena, thermodynamics, electrostatics. 3 lec, 2 lab, 1 recit.

253 General Physics (5) (2N)

Prereq: 252. Classical physics with calculus and vectors. Capacitance, electric current and circuits, magnetism and magnetic fields, electric induction, A.C. circuits, electromagnetic waves, geometrical optics, interference, and diffraction of light. 3 lec, 2 lab, 1 recit.

254 Contemporary Physics (4)

Prereq: 253 or EE 321. Introduction to relativity and quantum theory: selected topics in atomic, solid state, nuclear, particles, and cosmology.

262 General Physics with Biological Applications (5) (2N)

Prereq: 251 or (201 and (MATH 263A or MATH 266A)) Classical physics with calculus, emphasizing biological and medical applications. Topics include thermodynamics, waves, sound, electricity, and magnetism. 3 lec, 2 lab, 1 recit.

270 Special Studies (1-4)

Prereq: perm. Special studies in physics under supervision of faculty member.

272 Electronics Laboratory (2)

Prereq: 253 and phys major or perm. (winter) Circuit analysis, electronic measurements, semiconducting devices and instrumentation from DC to microwaves. 4 lab.

273 Electronics Laboratory (2)

Prereq: 272 and phys major or perm. (spring) Circuit analysis, electronic measurements, semiconducting devices, and instrumentation from DC to microwaves. 4 lab.

297T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 1st-yr tutorial studies in physics.

298T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 1st-yr tutorial studies in physics.

299T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 1st-yr tutorial studies in physics.

303 Computer Simulation Methods in Physics (4)

Prereq: phys major or perm. Introduction to scientific programming (e.g., Java, C++, etc.), particularly to the methods of computer simulations, with a special emphasis on problems in physics. 2 lec, 4 lab.

311 Mechanics (4)

Prereq: 253 or 315; MATH 340. (fall) Fundamentals of physical mechanics using vector analysis and ordinary differential equations. Particle dynamics, accelerating reference systems, central forces and celestial mechanics.

312 Mechanics (4)

Prereq: 311. (winter) Continuation of 311. Many-particle systems, rigid body dynamics, Lagrangian methods, and small oscillations.

351 Modern and Quantum Physics (4)

Prereq: 253. Introduction to relativity and quantum theory. Particle and wave propagation, 3-dimensional hydrogen atom.

352 Modern and Quantum Physics (4)

Prereq: 351. Quantum effects, nuclear and particle physics, statistical physics, molecular and solid state physics; astrophysics, general relativity, and cosmology.

371 Intermediate Laboratory (Electrons) (2)

Prereq: 254 or 352. Fundamental experiments on electron properties including charge and mass, wave properties, atomic binding, spin, and conduction. 4 lab.

372 Intermediate Laboratory (Photons) (2)

Prereq: 254 or 352. (winter) Experiments in optics, lasers, X-rays and spectroscopy. 4 lab.

373 Intermediate Laboratory (Nucleons) (2)

Prereq: 254 or 352. (spring) Nuclear decay modes and α , β , γ -decay spectroscopy. Nuclear reactions and scattering. Principles of operation of α , β , γ and neutron detectors and data acquisition systems. 4 lab.

397T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only (fall) 2nd-yr tutorial studies in physics.

398T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only (winter) 2nd-yr tutorial studies in physics.

399T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only (spring) 2nd-yr tutorial studies in physics.

411 Thermodynamics (4)

Prereq: 253, MATH 340. (fall) 1st and 2nd laws of thermodynamics, phase changes and entropy. Temperature, thermodynamic variables, equations of state, heat engine. 3 lec, 1 rec.

412 Kinetic Theory and Statistical Mechanics (4)

Prereq: 411. (winter) Kinetic theory, transport phenomena of gases, and introduction to classical and quantum statistics. 3 lec, 1 rec.

414 Dynamic Meteorology I (4)

Prereq: 411, MATH 340, 440, 441. Basic conservation laws, elementary fluid dynamics, circulation and vorticity. Mathematics related to coordinate systems related to meteorology, thermodynamics of the atmosphere.

415 Dynamic Meteorology II (4)

Prereq: 414. Continuation of 414. Energy balance in the atmosphere, thermal physics of the atmosphere. Synoptic scale motions, atmospheric oscillations, baroclinic instabilities, mesoscale circulation, numerical methods. Special topics in dynamical meteorology.

420 Acoustics (3)

Prereq: 312, MATH 340, or perm. (spring, odd yrs) Vibration, sound radiation, sound propagation, and practical aspects of sound. 3 lec.

423 Geometrical and Physical Optics (4)

Prereq: 253, MATH 441, or perm. Reflection, refraction, diffraction, lenses, polarization, birefringence, interference, coherence, and selected introductory topics in modern optics. 4 lec.

427 Electricity and Magnetism (4)

Prereq: 253, MATH 340 and 440. (fall) Circuits and electric and magnetic fields. Topics on field sources, potentials, Gauss' law, polarization and dielectrics, magnetic induction. 3 lec, 1 rec.

428 Electricity and Magnetism (4)

Prereq: 427. (winter) Electric and magnetic fields. Topics on magnetic potentials, magnetic forces, Faraday law, magnetic materials, capacitance and inductance, energy of charge and current distributions, time-varying current. 3 lec, 1 rec.

429 Electromagnetism and Relativity (3)

Prereq: 428. (spring) Advanced topics in electromagnetism; Maxwell's equations and electromagnetic waves; special relativity and Lorentz transformation. 3 lec.

431 Electronics Laboratory (3)

Prereq: perm. Experiments in electronic measurement techniques from simple A.C. and digital circuits to microprocessors and analyzers. 6 lab.

451 Quantum Mechanics (4)

Prereq: 254 or 352, MATH 441 or perm. Classical background, early work, some observables and Hermitian operators, representations, symmetry and conservation laws, One-dimensional Schrodinger equation solutions in the position and momentum representation. Some problems in two dimensions. Philosophical issues and quantum paradoxes. 4 lec.

453 Nuclear and Particle Physics (4)

Prereq: 254 (spring) Descriptive treatment of nuclear phenomena. Elementary theory of nucleon-nucleon interaction. Systematics of nuclear structure (shell model and collective model). Properties and interactions of fundamental particles. Devices and techniques of nuclear and high energy physics. 3 lec, 1 rec.

461 Cell and Molecular Biophysics (4)

Prereq: 253, CHEM 152, BIOS 170. Introduction to the physical principles that underlie phenomena in cell biology and the properties of biomolecules. Topics covered will include an introduction to molecular biology, bioreology, Brownian motion, molecular interaction in macromolecules, protein and nucleic acid structure, physics of biopolymers, chemical kinetics, mechanical and adhesive properties of biomolecules, molecular manipulation techniques, cell membrane structure, membrane channels and pumps, and molecular motors. 4 lec

470 Special Problems (1-4)

Prereq: 22 hrs. Supervised research problems of limited scope in experimental and theoretical physics.

471 Solid State Physics (4)

Prereq: (254 or 352) and 412. (spring, even yrs) Fundamental properties of solid state of matter 3 lec, 1 rec

475 Advanced Laboratory (1 hr per sec, max 3)

Prereq: 373 or perm. Wide selection of experiments from many areas of physics. Limit of 2 students per section. Student may select up to 3 different sections each qtr

477 Electronic Device Physics (4)

Prereq: 253. Physical principles of electronic devices. Overview of electronic transport in solids with application to diodes, bipolar transistors, and field-effect transistors. Heterostructures and low-dimensional physics and devices. Selected condensed matter phenomena with electronic device applications: resonant tunneling, Landauer formalism, single-electron physics, molecular electronics and spintronics. 4 lec.

490H Honors Thesis (1-6)

Prereq: Departmental honors candidates only; perm of director of honors studies. Supervised research work in physics, astronomy, or engineering physics, intended for submission for undergrad honors.

493 Undergraduate Seminar (1)

Prereq: jr. Important areas of current interest in field of physics, history of physics, development of ideas in physics, and other aspects of physics.

497T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 3rd-and 4th yr tutorial studies in physics.

498T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 3rd-and 4th yr tutorial studies in physics.

499T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 3rd-and 4th yr tutorial studies in physics.

Political Communication (POCO)

201 Introduction to Political Communication (3)

Overview of the realm of political communication, the interactions among political figures, political interests, the press, and the public. Against the background of the American political process, an investigation of those involved in that process, their relationships, and the role of mass and interpersonal communication in these relationships.

401 Seminar in Political Communication (5)

Prereq: 201 and completion of a min. of four courses from the program, and perm. A senior-level research course investigating selected aspects of political communication.

Political Science (POLS)

101 American National Government (4) (2S)

Constitutional basis and development, political processes, institutions, and organization of American national government.

102 Issues in American Politics (4) (2S)

Concerned with administration and policy-making processes of national government in selected areas, e.g., welfare, civil rights, defense, etc.

103 The United States in World Affairs (4) (2S)

Introduction to major foreign policy problems confronting successive U.S. administrations in world affairs.

150 Current World Problems (4) (2S)

Examines a number of the major political crises, problems, and issues confronting the contemporary world.

210 Principles of Public Administration (4) (2S)

Introduction to role and operation of public agencies in American society. Examines organization of federal, state, and local bureaucratic systems, their interrelations, and their basic principles, functions, and tasks.

230 Comparative Politics (4) (2S)

Introduction to dynamics, structures, and comparison of contemporary political systems and processes.

250 International Relations (4) (2S)

Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

270 Political Theory (4) (2S)

Introduction to study of political theory: examination of selected political issues and theorists from philosophical perspective. Emphasis on developing one's own political values and theories.

301 The Politics of Law (5)

Prereq: 101. Introduces the study of law as a political process with special emphasis on courts, legal ideologies, violence, and the mobilization of rights claims in social and political conflict.

304 State Politics (4)

Prereq: 101, 102. Comparative analysis of state political systems. Emphasis on structure and process of policy making of states within federal context.

305J Writing on Political Science Topics (4) (1J)

Prereq: jr, majors only. Writing course for political science majors. Focus is on studying and producing clear and persuasive writing about political issues.

306 Politics of Appalachia (5)

Prereq: 101 or perm. Introduction to Appalachia, its political patterns, and political problems such as politics of poverty and powerlessness. Includes examination of responses to these problems by various levels of government—national, regional, state, and local.

310 American Domestic Policy (4)

Prereq: 101, 102, or perm. Major issues in American domestic policy are discussed from a variety of perspectives. The origin, development, and current structures of economic and social policy will be discussed. An analysis of these policies from a free market as well as a Marxist perspective will be provided.

319 Gay and Lesbian Politics (4)

Prereq: soph. Exploration of emergence and ramifications of gay political activism in Western culture. Homosexuality is examined from vantage points of religion, psychology, law, and politics.

320 Urban Politics (4)

Prereq: 101, 102, or perm. Examination of role of values in urban politics focusing on their relationship to urban problems, structure and functions of municipalities, urban professionalism, and alternative urban arrangements.

323 Black Politics in the United States (4)

Prereq: 101 and 102 or perm. Appraisal of economic and institutional structure of American

society through social doctrines, enunciated by black political theorists, that serve as inspiration and ideology for black political movements. Examines sociopolitical societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms. Not open to those who have had AAS 323.

331 Politics in Western Europe (4) (25)
Government and politics in several West European nations.

333 Politics in Russia and Former Soviet Union (4)

Introduction to political development, ideology, institutions, and contemporary politics of the former U.S.S.R.

340 The Politics of Developing Areas (4) (2C)

Major theories and problems of political, sociocultural, and economic development in new states of Asia, Africa, and Latin America, with special emphasis on heritage of colonialism, struggle for independence, and political adjustments to rapid social and technological change.

342 East Asia in World Politics (4)

Prereq: 230 or 250 or perm. Examines the evolution of East Asia in world politics in the postwar era, including both the historical antecedents and alternative theoretical perspectives, as well as a variety of contemporary political, economic, and security issues related to this region.

354 American Foreign Policy (4)

Prereq: 103 or perm. Consideration of problems involved in formulation and execution of foreign policy. Particular emphasis on contemporary problems of American policy makers.

371 Plato, Aristotle, and Pre-Modern Political Thought (4)

Prereq: not open to fr. Major figures and basic concepts characteristic of political thought in ancient and medieval periods. Emphasis on original works of Plato, Aristotle, St. Augustine, St. Aquinas and on developing one's own political values and theories.

372 Modern Political Thought (4)

Prereq: not open to fr. Basic philosophic conceptions of modern nation state. Utilizing original works, evolution of nation state traced through philosophical literature from its Renaissance origins. Attention focused on both formative and critical perspectives, such as those of Machiavelli, Rousseau, and Emma Goldman with emphasis upon evaluation of norms associated with modern state.

373 Contemporary Political Thought (4)

Prereq: not open to fr. 19th- and 20th-century political theory. Focus on such contemporary philosophical and political issues as emergence of European socialist tradition, origins of human aggression, and human alienation. Attention given to selected theorists such as Marx, Freud, Gandhi, M. Friedman, and M. Harrington.

390 Political Workshop (10-15)

Prereq: 101 and perm. (fall, even years) Intensive analysis of political organizations and campaigning combined with field experience in campaigning.

401 American Constitutional Law (4)

Prereq: 16 hrs POLS, including 301. Analyzes the politics of American constitutional law with special focus on judicial review, economics, race, and gender.

402 American Constitutional Law (4)

Prereq: 16 hrs POLS, including 301. Analyzes the politics of American constitutional law with special focus on abortion, censorship, and surveillance.

404 Civil Liberties (4)

Prereq: 270 and 401 or 402. Examination of selected civil liberties issues such as freedom of expression, human and political equality, rights of criminally accused, and rights of indigent.

405 American Political Parties (4)

Prereq: 11 hrs POLS. Origin, growth, organization, and methods of parties; suffrage, nominations, and elections; role of parties in democracy.

406 Elections and Campaigns (4)

Prereq: 101. Examines nature of voter and rationality of voter decisions; impact of campaigns and

their influence on election outcomes; techniques used in political campaigns; and role of elections in American society.

407 Politics of Urban Development (4)

Prereq: 320. Focuses on the causes and consequences of economic development politics and policies in urban America and the multiple facets of urban development.

408 Urban Public Administration (4)

Prereq: 320 or perm. Examines administration of urban programs. Focuses on agency-client relationships, professionalism, and public delivery

409 Criminal Procedure (5)

Prereq: 11 hrs POLS or perm. Role, function, and problems of American judicial, prosecutory, policing, and correctional systems in political process. Crime and law as functions of social and political systems. Examination of relationship of law and social change in industrialized, urbanized, and technical society

410 Public Policy Analysis (4)

Prereq: 12 hrs POLS, including 102. Analysis of policy process; formulation, implementation, and evaluation. Examines policy areas such as energy, health, economic development.

412 Public Personnel Administration (4)

Prereq: 11 hrs POLS. Philosophy, problems, and procedures of public personnel management: recruitment, training, promotion policies, position classification, and employer-employee relations.

413 Administrative Law (4)

Prereq: 11 hrs POLS. Organization, functions, and procedures of selected national regulatory agencies; principles affecting administrative discretion, administrative power over private rights, enforcement, and judicial control of administrative decisions. No credit if BUSL 475.

414 Organizational Theory and Politics (4)

Prereq: 210. Examination of public organizations. Presents major theories of organizations in public administration.

415 The American Presidency (4)

Prereq: 11 hrs POLS. Analysis of office of national chief executive and its place in American political system. Attention given to constitutional status and powers, functional development, and interrelationship of person and office.

416 Legislative Processes (5)

Prereq: 11 hrs POLS. Explores legislative process and policy, primarily at national level. Examines influence of interest groups, constituencies, political parties, executive branch, and organizational structure of Congress on legislative outcomes.

418 Interest Groups in American Politics (4)

Prereq: 11 hrs POLS. Organization and tactics of pressure groups and their impact on policy-making process.

420 Women, Law, and Politics (4)

Prereq: jr or perm. Focuses on political and legal position of women in U.S. Covers women's legal status, feminist movement, current issues, and public policy responses concerning women's position such as Equal Rights Amendment, marriage and divorce laws, affirmative action, abortion, and pay equity.

421 The Politics of Law and Sexuality

An exploration of the regulation of sexuality in the U.S. from legal and theoretical perspectives. Cases and other materials will address a variety of issues including the right to privacy, pornography, the right to marry, and gays in the military.

422 Political Elites and Leaders

Exploration of the phenomenon of elites and leadership in global perspective, including contemporary Asia, Africa, and Latin America.

424 Intergovernmental Relations in the U.S. (4)

Prereq: 210 or perm. Examines intergovernmental fiscal patterns between federal-state-local governments and impact of fiscal transfers on local budgeting and finance administration. Includes analysis of nonfiscal patterns such as federal program requirements, their impact on local administrative processes, and other pressures on local budgeting and finance.

425 Environmental and Natural Resource Politics and Policy (4)

Examines the institutional context and political dynamics of environmental and natural resource policy making in the United States. Topics include history of the U.S. environmental movement, major players and arenas of influence in environmental politics, and current policy issues including public lands, endangered species, solid and hazardous waste, and air pollution.

426 Politics of Contemporary Environmental Movement (4)

Examines the major segments of contemporary U.S. environmental movement. Topics include the professionalization, activities, strategies, and criticisms of the mainstream environmental groups; radical environmentalism; grassroots environmentalism and gender; environmental justice and race.

427 Formulation of American Foreign Policy (4)

Prereq: 103 or 354 or perm. Covers institutional and administrative as well as political and more informal processes whereby foreign policy decisions are formulated and implemented in U.S.

429 Comparative Public Administration (4)

Prereq: 210 or 230 or perm. Examines and compares characteristics of public administrative systems in various national political settings.

431 Politics of Eastern Europe (4)

Discussion of recent political shifts in Eastern Europe, from Communism through current revolutions/transitions. Special focus on construction of democratic institutions, economics reforms, post-communist justice, and ethnic politics.

432 Policy Making in Russia (4)

Prereq: 11 hrs POLS, including 333 or course in Soviet history or perm. Examination of how Russian leadership deals with number of major domestic problems.

433 Russian Foreign Policy (4)

Prereq: 11 hrs POLS, including 333 or perm. Analysis of foreign policies of the former U.S.S.R. Historical, ideological, strategic, and other influences covered.

434 Government and Politics of Latin America (4)

Prereq: jr or sr. Political systems of Latin America. Emphasis on power relationships and political obstacles to change in contemporary Latin America.

435 Revolution in Latin America (4)

Prereq: jr or sr. Revolution as theoretical concept and as practical reality in several Latin American countries. Special emphasis on Cuban and Nicaraguan revolutions.

438 Government and Politics of Germany (4)

Prereq: 11 hrs POLS or perm. Major political processes, personalities, and institutions of contemporary West Germany, including key foreign policy issues.

439 Politics in France (4)

Prereq: 11 hrs POLS or perm. Major political processes, personalities, ideas, and institutions of modern France.

441 African Politics (4)

Prereq: B hrs POLS or history. Development and structure of modern African states with emphasis on political processes in tropical Africa.

442 Middle East Politics (4)

Prereq: 12 hrs POLS including 230. Examination of the major issues and dilemmas in contemporary Middle Eastern politics including the clash of religions and nationalisms, security and stability in the Persian Gulf, the Arab-Israeli conflict, efforts at democratization, and the status of women.

445 Government and Politics of Japan (4)

Prereq: 11 hrs POLS or Asian history. Political institutions and processes of Japan with emphasis on developments since 1945.

446 Government and Politics of China (4)

Prereq: 11 hrs POLS or Asian history. Political institutions and processes and major political developments in modern China.

447A Government and Politics of Southeast Asia (4)

Prereq: 11 hrs POLS or history. Introduction to the political institutions and processes of contemporary Southeast Asia.

447B Government and Politics of Southeast Asia (4)

Prereq: 11 hrs POLS or history. Continuation of 447A but can be taken independently. More in-depth study of politics in selected countries of Southeast Asia.

449 Nationalism and Ethnic Conflict (4)

Examines the nature of nationalism and its sources. Considers the nature of state boundaries and the political contention that can lead to violence based on national identity. Explores the means to resolve or prevent such conflicts.

450H Honors in Political Science (5, max 20)

Prereq: acceptance in departmental honors program. Seminar on selected topics in political science and preparation and research for writing an honors thesis.

452 Advanced International Relations (4)

Prereq: 250 or perm. In-depth analysis of various aspects of international relations including major theoretical approaches to study of international relations.

455 International Law (4)

Prereq: 250 or perm. Role of international law in interstate relations and international organization.

456 International Organizations (4)

Prereq: 250. Analysis of nature, development, structure, and functions of international organizations with particular emphasis on United Nations.

457 National Security in the Post-Cold War World (4)

Prereq: 12 hrs POLS including 250. Introduction to the concepts and problems of attaining international security in an ever-changing world. Overview of the traditional and new sources of state insecurity and consequences of the quest by nations to attain security in the international system.

459 Arms Control and Disarmament (4)

Prereq: 11 hrs POLS or perm. Examines military force in nuclear age with special emphasis on strategy of nuclear deterrence; history of disarmament negotiations since WWII; arms control agreements; and case studies in current U.S.-Russian arms control negotiations.

460 International Political Economy (4)

This course examines the politics of the world economy. Topics covered include the politics of international trade, the politics of the international monetary system, and international cooperation.

463 The United States and Africa (5)

Prereq: 103 or 250 or 354. Origins and nature of American relations with African states, with emphasis on current American interests and policy.

468 Nonprofit Fundraising (4)

Prereq: jr. An introduction to the tradition of philanthropy and fundraising in the United States. Examines practical, moral, and legal issues involving fund development and the fundraising profession. Provides students with an opportunity to apply fundraising techniques and practices to enhance the financial commitment of individuals, corporations, foundations, and government to "real-life" development projects.

475 Studies in Political Thought (5)

Prereq: 1 course in political thought or perm. Selected topics in political theory; e.g., anarchism, socialism, democratic theory, technology and politics, etc. Consult department for information pertaining to current course description and schedule.

476A American Political Thought (4)

Prereq: 11 hrs POLS or history. Origin and development of political ideas from colonial period through slave controversy.

476B American Political Thought (4)

Prereq: 11 hrs POLS or history. Continuation of 476A but can be taken independently. Begins with Social Darwinism and concludes with contemporary political ideas in America.

477 Legal Theory and Social Problems (4)

Prereq: 12 hrs POLS or perm. Examination of legal reasoning and normative values of judges, lawyers, legal theorists, and administrative agencies in shaping legal solutions to contemporary social problems. Emphasis on developing one's own political, legal, and philosophical values.

478 Feminist Political Theories and Movements (5)

Prereq: jr or perm. Explores issues of power, powerlessness, oppression, and transcending oppression. Views feminism as human rights movement. Topics: origins and history of sexism and feminism, classic treatises of feminist political theory, contemporary theories from conservative to anarchist, visions of post-sexist futures, movement strategies and tactics, practical applications.

479 Latin American Political Thought (4)

Prereq: 11 hrs POLS. Evolution of Latin American political thought from conquest to present. Major emphasis on 20th-century movements such as Democratic Left, Progressive Catholic Left, and Marxist Revolutionary Left.

481 Modern Political Analysis (4)

Prereq: 20 hrs POLS or perm. Examination of problems of knowledge in social sciences with particular emphasis on political science. Analysis of major theories or approaches developed in political science recently.

482 Quantitative Political Analysis (5)

Prereq: 481 or perm. Designed to show relevance of scientific research techniques to study of politics.

483 Statistical Package for the Social Sciences (4)

Prereq: PSY 121 or POLS 482 or equiv. Designed to introduce social science students, with some statistical background, to the use of the microcomputer for data analysis. Although the focus is the structure and syntax of SPSS/PC, fundamental data analysis problems will be discussed in the context of computer applications.

484 Management Skills for Public Administration (5)

Prereq: jr. Practicum designed to introduce students to several management skills needed for success in public administration and to permit them to apply these skills in a classroom setting.

486 Public Budgeting (4)

Prereq: 210 or 411 or perm. Examines politics, techniques, and consequences of public budgeting processes at federal, state, and local levels.

487 Financial Management in Government (4)

Prereq: 210, 411 or equiv or perm. Examines financial aspects of state and local governments. Financial conditions of these governments discussed in conjunction with various actions governments take to deal with them.

488 Public Dispute Resolution (4)

Prereq: jr. Examines the field of alternative dispute resolution. Focus is on the dynamics and management of such public issues as facility siting, natural resource use, and community funding. Topics include conflict assessment, negotiation, mediation, and the politics of alternative dispute resolution.

489 Nonprofit Management (4)

An introduction to the nonprofit sector and its role in society, the economy, and the delivery of human services. Includes an overview of principle management functions as each applies to nonprofit organizations.

490 Studies in Political Science (3-5)

Prereq: 11 hrs POLS or perm. Intensive study of special topics in field of political science, including American government and politics, comparative government, international relations, political theory, and public administration.

492A-E Research in Political Science (1-5)

Prereq: 18 hrs POLS; max 20 hrs in 492ABCDE; max 10 hrs in one course. Research in selected subfields of political science; international relations, American politics, comparative government, public administration, political theory. See quarterly schedule of classes for registration information.

494A-Z Workshops in Selected Topics (1)

Prereq: perm. Workshop in selected topics.

495 Public Affairs Internship (1-15)

Prereq: jr or above, POLS major, or perm. Provides qualified students with opportunity to learn through working in selected public and private agencies.

496X International Internship(1-15)

Internship outside the United States.

Professional Communication (PRCM)**150 Business Communication Basics (4)**

Prereq: BA 100A. Introduces the basic business communication principles and practices and sets the communication standards in preparation for real world workplace experiences. Business-related cases are utilized for research, writing, and speaking activities. Some attention is given to early preparation for internship research.

325J Professional Communication (4) (1J)

Prereq: jr or sr, Tier I English. Provides opportunities to practice and improve written and spoken communication skills, both individual and collaborative, which are appropriate for career success. Utilizes strategic managerial communication skills in analyzing business problems or situations and choosing the appropriate communication processes, products, or events to meet organizational needs.

Psychology (PSY)**101 General Psychology (5) (25)**

Introduction to psychology. Survey of topics in experimental and clinical psychology including physiological bases of behavior, sensation, perception, learning, memory, human development, social processes, personality, and abnormal behavior.

120 Elementary Statistical Reasoning (4) (1M)

Prereq: MATH placement level I or higher or MATH 101 or 102. Introduction to research methodology and descriptive and inferential statistics, emphasizing the development of practical reasoning skills necessary for the comprehension and critical evaluation of statistical information typically encountered in everyday life. No credit for both 120 and any of the following: MATH 250, MATH 250B, MATH 251, PSY 121. No credit if already credit for PSY 221 or QBA 201; no credit toward psychology major.

190 Workshops in Applied Psychology (1-2, max 5)

Workshops on specific topics in applied psychology, offered yearly, carrying predetermined alphabetical designations (e.g., 190A). Students seeking academic credit must complete satisfactorily written project determined by instructor. Graded credit/no credit.

201 Sensation and Perception (4)

Prereq: 101. Sensory and perceptual processes in vision, audition, somesthesia, gustation, olfaction, and kinesthesia. Theory and research on perceptual phenomena with an emphasis on visual and auditory modalities, including perception of objects, space, and events; effects of person variables on perception; perceptual development.

203 Learning (4)

Prereq: 101 and 120 or 221. Experimental investigation of classical and operant conditioning, discrimination learning, generalization, related phenomena.

221 Statistics for the Behavioral Sciences (5) (1M)

Prereq: Math placement level 2 or higher or MATH 113, or 115, or 163A or 263A. Introduction to descriptive and inferential statistics with emphasis on inferential statistics. No credit for both 221 and any of the following: MATH 251, PSY 121, QBA 201, COMS 301, ECON 381.

226 Research Methods in Psychology (4)

Prereq: 101 and 221. Training in scientific methods and techniques of modern experimental psychology with individual reports of experiments.

233 Psychology of Personality (4)

Prereq: 101. Development and organization of personality, with evaluation of major theoretical viewpoints; research on personality structure, dynamics, and change.

261 Survey of Industrial and Organizational Psychology (4)

Prereq: 101 and 120 or 221 or QBA 201. Survey of industrial and organizational psychology; emphasis on application of psychological theories and research to organizational situation.

273 Child and Adolescent Psychology (4)
Prereq: 101. Basic principles of human development from the prenatal period through adolescence. Theory and literature on physical, cognitive, and socioemotional development. No credit awarded if HCCF 160 or EDEL 200 has been taken. Will not count toward requirements for Education majors.

275 Educational Psychology (4)
Prereq: 101. Applications of psychological theories and models to educational settings (emphasis on schools). Major topics include goals of education; cognitive, social, and affective development in children; cognitive and behavioral models of learning; motivation; individual differences; effects of social class, ethnicity, gender, and cultural deprivation on learning and development; tests and evaluation. Emphasis is on the role of teachers and parents as facilitators of learning and development. No credit awarded if EDCI 275 has been taken.

304 Human Learning and Cognitive Processes (4)
Prereq: 12 hrs PSY including 101 and 221. Theoretical and experimental investigations of learning in human beings: concept learning, problem solving, memory, motor skills, and language.

305 Human Memory (4)
Prereq: 12 hrs PSY including 101 and 226. Structure and processes of human memory, including historical models of memory, contemporary theories of memory, techniques used in memory experimentation, memory stores, memory codes, mnemonic devices, memory failures, neurological basis of memory and memory failures, and computer models of memory.

307 Psycholinguistics (4)
Prereq: 9 hrs PSY including 101 or perm. How people produce, understand, and acquire language; psychological and linguistic theories. Emphasis on use of language.

308 Human Judgment and Decision Making (4)
Prereq: 226. Descriptive and prescriptive models of human judgment and decision making. Topics include how people understand uncertainty, and how they learn the relationships that enable them to make predictions, make decisions when the outcomes of these decisions are uncertain, and perceive risks. No credit awarded if MGT 430 has been taken.

310 Motivation (4)
Prereq: 12 hrs PSY including 101. Survey of theories of motivation, with emphasis on human motivation.

312 Physiological Psychology (4)
Prereq: 101. Physiological mechanisms involved in perception, movement, motivation, learning, emotions, and mental disorders. Anatomy, physiology, and chemical activities of cells in the nervous and endocrine systems. Research approaches for studying interactions between physiology and behavior.

314 Comparative Psychology (5)
Prereq: 9 hrs PSY including 101. Behavior of animals across phylo-genetic scale. Interaction of genetics, hormones, learning, etc., in development of behavior. Lecture, lab, field trips, and naturalistic movies.

315 Behavior Genetics and Individual Differences (5)
Prereq: 9 hrs PSY including 101. Extensive survey of individual differences and their relationship to genetic factors. Topics include chromosomal abnormalities, inborn errors of metabolism, genetic and prenatal screening, behaviors in infants, genetics and intellectual differences, psychopathology and genetics, racial differences, and continuing evolution of behavior.

321 Advanced Statistics for the Behavioral Sciences (5)
Prereq: 101, 221, and 226. Statistical techniques through multifactor analysis of variance and multiple regression analyses. Integration of experimental design with statistical analysis. Does not apply to Arts and Sciences social sciences or natural sciences requirement.

327 Human Psychophysiology (4)
Prereq: 101 and 120 or 221. Relationships between psychological variables and physiological events in humans. Measures of cardiovascular, electrodermal,

muscle, respiratory, and central nervous system activity; recording techniques; research findings; and applications such as biofeedback and lie detection.

332 Abnormal Psychology (4)
Prereq: 9 hrs PSY including 101. Behavior disorders, their cause and effects on person, family, and society.

335 Environmental Psychology (5)
Prereq: 9 hrs PSY including 101. Natural and built environments as factors of human behavior, cognition, and choice. Research concerning environmental design and evaluation from psychological standpoint emphasized.

336 Social Psychology (4)
Prereq: 101 and 120 or 221. Theory and research on the ways that people think about, influence, and relate to one another. Specific topics include attitudes and behavior, social perception and cognition, conformity, persuasion, group influence, aggression, attraction, and helping behavior.

337 Social Psychology of Justice (4)
Prereq: 9 hrs PSY including 101 (336 recommended). Theory and research on the interface of psychology and the legal system (with an emphasis on social psychology). Specific topics include dilemmas faced by psychologists in the legal system; legality vs. morality; the socialization, training, and ethics of lawyers and police; perception memory and error in eyewitness testimony; hypnosis; lie detection and confessions; rights of victims and accused; rape and rapists; arrest and trial; jury selection; jury dynamics and deliberations; insanity and the prediction of dangerousness; sentencing; death penalty; rights of special groups; theories of crime.

341 Tests and Measurements (4)
Prereq: 12 hrs PSY including 101 and 221. Tests, psychophysical methods, scaling techniques, and questionnaires. Basic criteria including reliability, homogeneity, and validity.

351 Introduction to Clinical and Counseling Psychology (4)
Prereq: 12 hrs PSY including 233 or 332. Diagnostic and remedial procedures and resources; professional problems, duties, skills, and interprofessional relationships.

361 Advanced Organizational Psychology (4)
Prereq: 261. Study of behavior in organizations with emphasis on applying psychological research and principles to understanding structure and process of (primarily work) organizations.

362 Personnel Psychology (4)
Prereq: 261. In-depth coverage of topics in personnel psychology including job analysis, organizational entry, and training and evaluation of personnel.

374 Psychology of Adulthood and Aging (4)
Prereq: 9 hrs PSY including 101 (273 recommended). Behavioral change and continuity over adult years through old age. Emphasis on interaction of psychological, sociocultural, and biological variables as they contribute to behaviors of aging individual from perspective of developmental framework.

376 Psychological Disorders of Childhood (4)
Prereq: 101 and 273 or HCCF 160 or EDEL 200. Characteristics, etiology, and treatment of abnormal child behavior: anxiety, mood, developmental, eating, attention-deficit, conduct, and selected pediatric disorders.

378 Psychology of Gender (4)
Prereq: 9 hrs PSY including 101. Sex differences in physical characteristics, abilities, personality, and social behavior; development of sex roles; sex roles across the life span; relationships of sex, gender, and sex roles to interpersonal functioning, work and psychological disorders.

380 Psychology of Health and Illness (4)
Prereq: 12 hrs PSY including 101. Theory and research on the psychological aspects of physical health and illness; interrelationships of behavior, emotion, stress, lifestyle, and illness; psychological factors in disorders such as hypertension, coronary artery disease, headache, asthma, and immune disorders; applications and effectiveness of psychological interventions.

390 Research in Psychology (1-5, max 15)
Prereq: 226 and written perm. Supervised independent research on predefined problem. Graded credit/no credit.

418 History and Systems of Psychology (4)
Prereq: 20 hours PSY. Comparative, historical review of major conceptual orientations in psychology within last century. Includes analysis of important philosophy of science issues bearing on psychology, such as nature of theory, observation, explanation, and some specialized topics especially pertinent to psychology.

430 Psychoactive Drugs: Therapeutic Agents and Drugs of Abuse (4)
Prereq: 312 or 332 or 376 or BIOS 171. Patterns of use and abuse of psychoactive agents, behavioral and physiological effects of drugs; etiological factors in drug abuse; treatment of drug abuse; use of drugs in the treatment of mental disorders; comparative effectiveness and integration of pharmacological and psychological interventions; research methods and problems in conducting research.

470 Prenatal Influences on Development (2)
Prereq: PSY 273 or EDEL 200 or HCCF 160; and PSY 312 or 1 biology course. Prenatal and perinatal influences on development, including the effects of genetic errors, drugs, nutrition, diseases, maternal behaviors, prematurity, and birthing techniques.

489 Fieldwork in Psychology (1-5, max 5)
Prereq: written perm. Independent fieldwork as volunteer or employee in work directly related to psychology. Arrangements for course credit must be approved before fieldwork begins. Contact assistant chair for undergrad studies to complete necessary forms. Graded credit/no credit.

490 Seminars in Psychology (5)
Prereq: dependent on seminar; perm required. Several seminars on specific topics in psychology offered yearly, carrying predetermined alphabetical designations (e.g., 490A). See *Schedule of Classes* for topics each qtr.

491 Special Problems in Psychology (1-15)
Prereq: written perm. Independent work on special problem with any psychology professor.

492X Special Problems—Psychology (1-15)
Prereq: Study Abroad Program, perm.

496H Psychology Honors Seminar (3-5)
Prereq: perm, admission to departmental honors program. Seminar on specific topics. See *Schedule of Classes* each qtr.

497H Readings in Honors Work (1-4, max 10)
Prereq: perm.

498H Honors Work in Psychology (1-4, max 10)
Prereq: perm. Preparation for 499H.

499H Honors Work in Psychology (Thesis) (3-7, max 15)
Prereq: perm.

Quantitative Business Analysis (QBA)

201 Introduction to Business Statistics (4)
Prereq: MATH 163A or 263A, MATH 250. Sampling plans, sampling distribution, decision analysis, estimation and hypothesis testing (one and two population tests), simple linear regression analysis, nonparametric statistical tests.

491 Seminar (4)
Prereq: perm. Selected topics of current interest in quantitative business analysis area.

497 Independent Research (1-4)
Prereq: perm. Research in selected fields of quantitative business analysis under direction of faculty member.

498 Internship (1-4)
Prereq: perm.

Real Estate Technology (REAL)

Real estate courses are available on the Athens campus through Lifelong Learning Programs and at the regional campuses through Continuing Education Offices.

101 Real Estate Principles and Practices I (4)

Real property is basic resource with which real estate professionals work. Course includes, but is not limited to, land and its description, rights and interests in real estate, contract law and real estate contracts, title transfer, deeds, leases, financing and mortgages, taxes, home ownership, urban planning, brokerage operations, appraisal and value, applied real estate math, and Ohio requirements for real estate licenses.

102 Real Estate Brokerage (4)

Prereq: 101 or perm. Expands on 101 and includes specialized fields of real estate, principal-agent relationship, listing principles and practices, closing principles and practices, sales contract, principles of economics and real estate appraising, property insurance, real estate finance, federal laws regulating real estate practice, mathematics in real estate, and other facets of real estate needed by real estate professional; Ohio licensing laws and requirements.

103 Real Estate Law (4)

Prereq: 101. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and sales personnel, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio, and zoning.

201 Real Estate Appraising I (4)

Deals with appraisal theory, basic principles affecting value of real property; data accumulation and analysis of city, neighborhood, site, and property; applied techniques and estimating value from 3 approaches; building analysis, depreciation; entire range of appraisal process; and preparation based on field experience of preparing single-family residential appraisal report.

204 Real Estate Finance (4)

Prereq: 101. Includes institutions, methods, instruments, and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government influence on real estate finance, and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

221 Real Estate—Special Topics (4)

Prereq: 204. Special topics in real estate covered. Areas include professionalism, ethics, salesmanship, human relations, F.H.A. and V.A. financing. Real estate office, advertising, building construction and materials, current issues, and problems facing real estate professional also considered.

Recreation and Sport Sciences

Athletic Training (RSAT)

128 Introduction to Athletic Training (2)

Introduction to prevention and care of athletic injuries. No credit if RSAT 129 or 140. 2 lec.

155 Introduction to Athletic Training Education (4)

(fall) Provides detailed introduction to the field of athletic training. Includes basic information on topics of the sports medicine team, administration issues, therapeutic modalities and exercise, strength and flexibility training, nutrition, pharmacology, psychological intervention, emergency procedures, and injuries to specific structures of the body. 4 lec.

160 Practice Aspects of Athletic Training (2)

Prereq: 155. (winter) Introduction of practical athletic training skills with emphasis on preventive and protective injuries. 2 lec, 1 lab.

165 Athletic Injuries Prevention and Management (4)

Prereq: 160, 180B; no credit if 150. (spring) Provides information on the prevention and

management of athletic injuries. Topics include musculoskeletal injuries, systematic disorders, skin diseases, environmental disorders, and other ailments related to the human body. 4 lec.

180A Practical Applications of Athletic Training I (1)

Coreq: 140. (fall) The practical application course is the first course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

180B Practical Applications of Athletic Training II (1)

Prereq: 180A. (winter) The practical application course is the second course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

180C Practical Applications of Athletic Training III (1)

Prereq: 180B. (spring) The practical application course is the third course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

215 Emergency Response and Care in Athletic Training (5)

Prereq: 165, 180C; no credit if 245. (fall) Advanced course in emergency care designed for athletic training majors. Hands-on experience allows realization of proper emergency care. Experience reinforced with comprehension of related policies and procedures as well as their application. 4 lec, 2 lab.

220 Orthopedic Evaluation and Assessment of Athletic Injuries I (5)

Prereq: 215, 280B, BIOS 301; no credit if 240 (winter) Provides students with hands-on experience that prepares them to perform orthopedic assessments within the field of athletic training. Students take medical histories, palpate bony and soft structures; perform range of motion, neurological and circulatory tests; and perform orthopedic special tests for the lower extremities and lumbar spine. 3 lec, 4 lab.

225 Orthopedic Evaluation and Assessment of Athletic Injuries II (5)

Prereq: 220; no credit if 300. (spring) Provides students with hands-on experience that prepares them to perform orthopedic assessments within the field of athletic training. Students take medical histories; palpate bony and soft structures; perform range of motion, neurological and circulatory tests; and perform orthopedic special tests for the upper extremities, head, cervical spine, and abdomen. 3 lec, 4 lab.

280A Clinical Applications in Athletic Training I (1)

Prereq: C or better 165; 180C, major. (fall) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

280B Clinical Applications in Athletic Training II (1)

Prereq: 280A. (winter) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

280C Clinical Applications in Athletic Training III (1)

Prereq: 280B. (spring) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

305 Interdisciplinary Aspects of Sports Medicine (2)

Prereq: 280C, 225 (fall) Exposes students to a variety of medical specialists and allied health personnel and the role they play in the sports medicine team. 2 lec.

308 Pharmacology and Athletic Training Education (3)

Prereq: 280C, 300, HLTH 204. (winter) Examines pharmacological issues related to the field of athletic training. Issues include the use of the Physician's Desk Reference (PDR), documentation and tracking medications, identifying and administering medications, and handling overdose and poisoning situations. 3 lec.

310 Therapeutic Exercise (5)

Prereq: C or better 225; 380A. (winter) Concepts and practices associated with the conditioning and reconditioning (rehabilitation) of athletic injuries. 4 lec, 2 lab.

315 Therapeutic Modalities (5)

Prereq: C or better 310; 380B. (spring) Principles and practical skills associated with therapeutic modalities used in the treatment and rehabilitation of athletic injuries. 4 lec, 2 lab.

350 Independent Study (1-5)

Prereq: jr, perm. Selected individual case studies utilizing techniques and theories in rehabilitation of athletic injuries. Additional one-hour credit for oral presentation of written analysis. Case studies completed under direction of athletic training faculty.

360 Orthopedic Appliances (4)

Prereq: 315. Information on applications and techniques utilized by sports medicine professionals in orthopedic settings. 3 lec, 2 lab.

380A Clinical Applications in Athletic Training IV (1)

Prereq: C or better 225; 280C. (fall) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

380B Clinical Applications in Athletic Training V (1)

Prereq: C or better 225; 350A. (winter) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

380C Clinical Applications in Athletic Training VI (1)

Prereq: C or better 310; 380B. (spring) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

381 Evidence-Based Practice in Athletic Training (4)

Prereq: 315. Introduces research topics and the data collection and application of statistical methods used in athletic training and related research. Assists students in preparing for graduate study through the development of a research proposal. 4 lec.

418A Instructional Experiences (1-15)

Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

425 Athletic Training Senior Seminar (5)

Prereq: 380C, 5r; no credit if 420. (fall) Examines issues related to the implementation and management of athletic training programs. Provides an overview of the athletic training education curriculum to assist in preparation for the National Athletic Trainer's Association Board of Certification (NATABOC) Examination. 5 lec.

480A Clinical Applications in Athletic Training VII (1)

Prereq: C or better 315, 380C. (fall) The clinical application course series is designed to be the culminating clinical experience so to provide the student with the understanding of advanced athletic training applications and techniques used in the therapeutic modalities and the administration of athletic training programs. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

480B Clinical Applications in Athletic Training VIII (1)

Prereq: 480A. (winter) The clinical application course series is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the therapeutic modalities and the administration of athletic training programs. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

480C Clinical Applications in Athletic Training IX (1)

Prereq: C or better 425; 480B. (spring) The clinical application course series is designed to be the culminating clinical experience so to provide the student with the understanding of advanced athletic training applications and techniques used in the therapeutic modalities and the administration of athletic training programs. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

490 Clinical Internship (1-16)

Prereq: major, sr. Elective internship in sports medicine clinical facility. (Student may not earn more than 24 total credit hours in any combination of 280, 480, and 490.)

Physical Education Activity (PED)

These courses are for students wishing to gain competency in a physical activity. Courses are offered on a pass/fail basis. (Horseback courses are letter graded for students enrolled in the Equine Studies Program on the Southern campus.) While no limit overall has been set for repeats of PED courses, individual majors, schools, departments, and colleges may limit the number of repeat hours that will count toward graduation.

- 100 Basketball
- 101 Lacrosse
- 102 Softball
- 103 Volleyball I
- 104 Volleyball II
- 105 Ultimate Frisbee
- 110 Dance, Belly I
- 111 Dance, Belly II
- 112 Dance, Belly III
- 113 Dance, Country
- 114 Dance, Social
- 120 Aerobic Conditioning
- 121 Aerobic Dance
- 122 Circuit Fitness
- 123 Conditioning and Weight Training
- 124 Jogging
- 125 Physical Conditioning I
- 126 Physical Conditioning II
- 127 Physical Conditioning III
- 129 Bowling
- 130 Golf I
- 131 Golf II
- 132 Golf III
- 133 Handball I
- 134 Handball II
- 135 Racquetball I
- 136 Racquetball II
- 137 Tennis I
- 138 Tennis II
- 139 Tennis III
- 140 Aqua Aerobics
- 141 Diving I
- 142 Diving II
- 143 Scuba*
- 144 Swimming I
- 145 Swimming II
- 146 Swimming III

- 147 Swimming IV
- 148 Swimming, Synchronized I
- 149 Swimming, Synchronized II
- 150 Swimming, Workouts
- 151 Water Polo
- 152 Water Skiing I*
- 153 Water Skiing II*
- 154 Water Skiing, Competitive*
- 160 Broomball
- 161 Hockey
- 162 Skating I
- 163 Skating II
- 164 Skating, Figure I
- 165 Skating, Figure II
- 166 Horseback Saddle Seat I*
- 167 Horseback Saddle Seat II*
- 168 Horseback Saddle Seat III*
- 170 Horseback Hunt Seat I*
- 171 Horseback Hunt Seat II*
- 172 Horseback Hunt Seat III*
- 173 Horseback Hunt Seat IV*
- 174 Horseback West I*
- 175 Horseback West II*
- 176 Horseback West III*
- 177 Horseback West IV*
- 178 Horseback Jumping I*
- 179 Horseback Jumping II*
- 180 Horseback Saddle Seat IV*
- 182 Karate I
- 183 Karate II
- 184 Tae Kwon Do I
- 185 Tae Kwon Do II
- 186 Judo I
- 187 Judo II
- 190 Special Needs PE
- 191 Archery
- 192 Boating
- 193 Badminton
- 194 Horseback Trail Riding*
- 195 Snow Skiing I
- 196 Snow Skiing II

* Special Fee Added

Physical Education and Sport Sciences (PESS)**100 The Student-Athlete Experience (1)**

Prereq: fr. only. (fall) Orientation for first-year student-athletes that introduces them to campus resources in order to assist in the transition from high school to college. Introduces concepts related to time management and life skills through the NCAA CHAMPS/Life Skills Program. Presentations from various campus groups. 1 lec.

103 Beginning Swimming (2)

Basic swimming skills. Students will be assessed by the instructor the first week of class to determine if their skill level is appropriate for 103 or if should change into 104. 4 lab.

104 Intermediate Swimming (2)

Instruction in basic stroke and related aquatic skills at intermediate and advanced level. Students will be assessed by the instructor the first week of class to determine if their skill level is appropriate for 104 or if should change into 103. 4 lab.

107 Modern Dance I (2)

Prereq: sport sc or PE major. (fall) Basic principles of dance technique. Movement progressions involving relationships of time, space, and dynamics. 4 lab.

109 Synchronized Swimming (2)

Prereq: 104, intermediate swimming skill or perm. Focuses on basic principles of 104. Development of simple stunts, sculling, and modified strokes; experimentation in group and individual composition. 4 lab.

110 Aqua Aerobics (2)

Prereq: sport sc or PE major. Designed to help students develop knowledge, skills, and positive attitudes concerning fitness through aquatic exercises. Covers various forms of aquatic exercise, program components, and lap swimming. 4 lab.

115 Rhythmics (2)

Prereq: sport sc, PE, REC, or music therapy major. (fall) Practical approach to rhythm fundamentals through various dance forms. 4 lab.

116 Social Forms of Dance (2)

Prereq: 115. Intermediate skills in ballroom, round, mixers, couple, and contra dance. 4 lab.

117 Folk and Square Dance (2)

Prereq: 115. Introduces folk and square dance skills, and allows students majoring in physical education to develop competency in this area of dance. 4 lab.

125 Human Movement and Fitness Perspectives (4)

Introduces students to the basic concepts of human movement and fitness. Students will develop skills to analyze basic human movement as it applies to sport and fitness. Students will also learn the foundation of health related physical fitness, and how to integrate fitness activities into their lifestyles. 3 lec, 2 lab.

126 Skill and Fitness for Physical Education Teachers (4)

Prereq: fr. and soph. Physical skill mastery and high levels of physical fitness are expectations of physical educators. Introduces variety of locomotor, non-locomotor and manipulative skills designed to measure student understanding and motor ability. A series of fitness activities that measure aerobic, anaerobic, flexibility, strength and endurance levels also are included. 1 lec. 6 lab.

141A Archery (2)

Prereq: sport sc major. Increases archery skill of students majoring in sport sciences. 4 lab.

141B Golf (2)

Prereq: sport sc major. Increases golf skill of students majoring in sport sciences. 4 lab.

149 Introduction to Exercise Science (4)

Prereq: Fr or soph, no credit if PESS 125 and 203. Introduces students to professions in exercise sciences with special emphasis on exercise physiology. Basic concepts of human movement and the foundations of wellness and health related physical fitness are introduced. 3 lec, 2 lab.

202 Introduction to Physical Education/Teacher Education (4)

Prereq: fr. or soph. (fall, spring) Introduces prospective physical educators to the multiple methods of becoming an effective teacher for children in pre-kindergarten (age 3) through grade 12. Observation of and content development in early childhood, middle childhood, and adolescent and young adult physical education programs will be explored. 3 lec., 2 lab.

203 Introduction to Exercise Physiology (3)

Prereq: fr. or soph. Introduces students to the various disciplines of exercise physiology. Emphasizes the disciplines required in various professional applications (fitness, rehabilitation, performance and research) of exercise physiology. 3 lec.

204 History and Principles of Physical Education (4)

Prereq: professional standing in sport sciences. (winter) History of sport and physical education from ancient to modern times. Principles underlying physical education in modern program of education are covered. 4 lec.

205 Fundamentals of Movement, Rhythms and Dance (3)

Prereq: professional standing in sport sciences. (fall) Introduces students to the disciplines and progressions of teaching human movement, rhythmical activities, and fundamentals of dance

in school based physical education programs. Students begin to develop movement analysis techniques, refine personal movement abilities, and begin the process of learning how to teach basic movement skills. 1 lec, 4 lab.

212 Introduction to Coaching (3)

Prereq: soph. (fall) Presents an overview of the multiple components involved in coaching individual athletes and athletic teams. Designed for those interested in coaching at the youth, interscholastic, or intercollegiate levels. Focuses on both theory and practical application, and any sport coaching interest is accommodated. 3 lec.

213 Youth and Sports (3)

(winter) Covers opportunities, controversies, organizations, safety, values, rules, leadership, benefits, and settings of youth sports programs. 3 lec.

215 Practicum in Athletics (2)

Prereq: 212. Supervised field experience designed to involve student in coaching/administrative setting. 4 lab.

218 Life Guard Training (2)

Prereq: 227 or concurrent, 228 or concurrent. Principles and practices of life saving for American Red Cross certification. Special fee. 4 lab.

220 Water Safety Instruction (4)

Prereq: 218. Includes analysis of swimming, life saving techniques, and teaching practices. Special fee. 2 lec, 4 lab.

221A Tennis (2)

Prereq: sport sc or PE major. Increases tennis skill of students majoring in sport sciences. 4 lab.

221B Badminton (2)

Prereq: sport sc or PE major. Increases badminton skill of students majoring in sport sciences. 4 lab.

223 Track and Field (2)

Prereq: sport sc or PE major. Track and field activities. 4 lab.

224A Racquetball (2)

Prereq: sport sc or PE major. Increases racquetball skill of students majoring in sport sciences. 4 lab.

224B Wrestling (2)

Prereq: sport sc or PE major. Familiarizes majors with skills and knowledge necessary for successful teaching of wrestling. 4 lab.

227 First Aid: Work Place training (3)

Presents the knowledge and skills of the American Red Cross Standard First Aid course, including adult CPR. Certification granted upon successful completion. Special fee. 2 lec., 2 lab.

228 Cardiopulmonary Resuscitation (1)

Presents knowledge and skills of the American Red Cross Community CPR course, including instruction in adult, infant, and child skills. Certification granted upon successful completion. Special fee. 0.5 lec., 1.5 lab.

234 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)

Prereq: permission. Supervised practice in organizing, managing, and teaching physical education activities to school-age children in public school and clinical settings.

240A Foundations of Sport and Games in Physical Education I (4)

Prereq: C or better 205. (winter) Sport and games are a primary instructional component of physical education programs. This course introduces and provides instruction in a variety of sport skills. 1 lec. 6 lab.

240B Foundations of Sport and Games in Physical Education II (4)

Prereq: C or better 205. (spring) Sport and games are a primary instructional component of physical education programs. This course introduces and provides instruction in a variety of sport skills and game activities that typically occur outdoors. Students will receive instruction in basic skills, tactics and strategies of game play, and will be required to apply principles of outdoor sports and games at different developmental levels. 1 lec., 6 lab.

248 Exercise Testing and Prescription (5)

Prereq: 125 or 149 or RSAT 165; no credit if 247, 347. (fall) Enables students to develop the knowledge and skills needed to evaluate the risks

of exercise, evaluate fitness levels, write exercise prescriptions, and develop exercise programming. 3 lec., 4 lab.

247 Fitness Testing (3)

Prereq: professional standing in sport sciences. Allows students to develop the necessary skills required to evaluate health related physical fitness. Emphasizes applied skills that will be gained through hands-on experience. 1 lec., 4 lab.

260A Flag Football (2)

Prereq: sport sc or PE major. Increases flag football competency of students majoring in sport sciences. 4 lab.

260B Team Handball (2)

Prereq: sport sc or PE major. Increases team handball competency of students majoring in sport sciences or PE major. 4 lab.

261 Practicum in Sport Science (1-5)

Prereq: permission. Lab and field experiences designed to place students in various settings related to their program emphasis. 2-10 lab.

262A Field Hockey (2)

Prereq: sport sc or PE major. Increases field hockey skill and knowledge of students majoring in sport sciences. 4 lab.

262B Soccer (2)

Prereq: sport sc or PE major. Increases soccer skill and knowledge of students majoring in sport sciences. 4 lab.

263A Basketball (2)

Prereq: sport sc or PE major. Increases basketball skill and knowledge of students majoring in sport sciences. 4 lab.

263B Volleyball (2)

Prereq: sport sc or PE major. Increases volleyball skill and knowledge of students majoring in sport sciences. 4 lab.

264A Softball (2)

Prereq: sport sc or PE major. Increases softball skill and knowledge of students majoring in sport sciences. 4 lab.

264B Lacrosse (2)

Prereq: sport sc or PE major. Increases lacrosse skill and knowledge of students majoring in sport sciences. 4 lab.

270 Teaching of Physical Education (3)

Prereq: elem ed or early childhood/primary major. Lab and lecture experiences for teaching physical education in elementary school. 3 lec, 2 lab.

290 Teaching Aerobic Exercise and Dance (4)

Introduces students to area of aerobic dance/exercise, its history, characteristics, and related information necessary to development. 3 lec, 2 lab.

302 Biomechanics (4)

Prereq: C or better BIOS 301 or 302. (fall, winter) Analysis of human movement based on anatomical and mechanical principles. 3 lec, 2 lab. (Same as BIOS 352.)

305 Coaching of Swimming (3)

Prereq: 212 or soph. Theory of coaching swimming and diving; analysis of skills, methods, duties, and responsibilities. 3 lec.

310 Principles, Theories and Methods of Teaching Early Childhood Physical Education (6)

Prereq: C or better 240A, 240B. (fall) Examines the role of physical education at the early childhood level with emphasis in basic movement education with scope and sequencing for ages 3 through grade 3. Students will refine teaching skills and develop an understanding of the interrelation of curriculum, unit and lesson planning unique to teaching early childhood physical education. Observation and interaction with children through field study under the supervision of faculty and cooperating teachers. 3 lec, 6 lab.

313 Sport Club Management (3)

Prereq: MGT 202, jr. or sr. (winter) Focuses on application of management theory to a sport business. Emphasizes decision making techniques and communication skills leading to effective planning, organizing, and controlling a sport-related service or product. 3 lec.

318 Coaching of Tennis (3)

Prereq: 212 or soph. Theory of coaching tennis: analysis of skills, strategies, methods, duties, and responsibilities. Limited practical work. 2 lec, 2 lab.

319 Analysis of Current Research in Physical and Motor Development of Athletes (3)

Prereq: 212 or soph. Physiological, anatomical, and kinesiological research finding which maximizes motor performance and minimizes injury. Special emphasis on utilization of research in competitive sports. 3 lec.

320 Coaching of Wrestling (3)

Prereq: 212 or soph. Theory of coaching wrestling: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec., 2 lab.

322 Applied Kinesiology (4)

Prereq: 249, BIOS 301 or (301A & 301B). How the musculoskeletal system functions in human movement. Students examine role of joints and muscles in complex motor skill activities. 3 lec, 2 lab.

324 Coaching of Soccer (3)

Prereq: 212 or soph. Theory of coaching soccer: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec., 2 lab.

325 Human Dynamics in Sport (3)

Prereq: 125 or 212. Interpersonal dimensions of coaching and participating in athletic programs. 3 lec.

327 First Aid: Work Place Training Instructor (3)

Prereq: 227. Presents all necessary information to conduct and implement an American Red Cross Standard First Aid course. Instructor certification granted upon successful completion. Special fee. 1 lec, 4 lab.

328 CPR Instructor (3)

Prereq: 228. Presents all necessary information to conduct and implement an American Red Cross Community CPR course. Instructor certification granted upon successful completion. Special fee. 1 lec. 4 lab.

330 Principles, Theories and Methods of Teaching Middle Childhood Physical Education (6)

Prereq: C or better 310. (winter) Examines the role of physical education at the elementary and middle school levels. Emphasis on curriculum development, unit and lesson planning, and methods of instruction. Students develop an understanding of the organization and administration of physical education programs appropriate for grades 4-8. 3 lec, 6 lab.

333 Adapted Physical Education (4)

Prereq: 310. (winter) Organization of physical activity programs adapted to needs of atypical individuals. 3 lec, 2 lab.

334 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)

Prereq: permission. Supervised practice in organizing, managing, and teaching physical education activities to children in public schools and in clinical settings.

335 Adapted Physical Education for the Special Educator (4)

Prereq: EDSP 271 or EDTE 200, 201, and 202. (winter) Designed to offer insight and practical experience in the areas of motor deficiencies of children. Provides for the acquisition of observation skills, motor analysis skills, motor progressions, and the process of adapting skills, activities, and equipment to the motor needs of children with disabilities. 3 lec, 2 lab.

339 Athletic Officiating—Football (3)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 2 lec, 2 lab.

340 Athletic Officiating—Basketball (3)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 2 lec, 2 lab.

341 Athletic Officiating—Baseball (3)

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 2 lec, 2 lab.

345 Foundations of Exercise Physiology (4)
Prereq: C or better 125, BIOS 301 or 302. (winter) Introduces the basic physiological principles of organ systems and body function during exercise. Special emphasis on the function of the nervous, muscular, cardiovascular, and respiratory systems and how they respond to exercise and exercise conditioning. Application of these principles in examining the optimal means to promote health-related fitness and optimal athletic performance. 4 lec.

347 Exercise Prescription I (3)
Prereq: 247; BIOS 301 or 302. Allows students to develop the knowledge and skills to evaluate the risk of exercise, evaluate fitness levels, write exercise prescriptions and develop exercise programming. 2 lec, 2 lab.

350 Independent Study (1-5)
Prereq: jr, perm. Study and/or research in selected fields related to physical education, athletics, or sports sciences under direction of PESS undergraduate committee and faculty member.

351 Coaching of Golf (3)
Prereq: 212 or soph. Theory of coaching golf: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

352 Coaching of Ice Hockey (3)
Prereq: 212 or soph. Theory of coaching ice hockey: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

353 Coaching of Lacrosse (3)
Prereq: 212 or soph. Theory of coaching lacrosse: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

354 Coaching of Volleyball (3)
Prereq: 212 or soph. Theory of coaching volleyball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

356 Coaching of Field Hockey (3)
Prereq: 212 or soph. Theory of coaching field hockey: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

365 Coaching of Basketball (3)
Prereq: 212 or soph. Theory of coaching basketball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

366A Coaching of Baseball (3)
Prereq: 212 or soph. Theory of coaching baseball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

366B Coaching of Softball (3)
Prereq: 212 or soph. Theory of coaching softball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

367 Coaching of Football (3)
Prereq: 212 or soph. Theory of coaching football: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

368 Coaching of Track (3)
Prereq: 212 or soph. Theory of coaching track: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

370 Principles, Theories and Methods of Teaching Adolescent and Young Adult Physical Education (6)
Prereq: C or better 330. (spring) Examines the role of physical education at the adolescent and young adult levels with an emphasis on curriculum development, unit and lesson planning and methods of instruction. Students develop an understanding of the organization and administration of physical education programs appropriate for grades 9-12. 3 lec, 6 lab.

380 Life Guard Training Instructor (2)
Prereq: current lifeguard training certificate. Focuses on the responsibilities of the lifeguard, lifeguard conduct, preventative lifeguarding, emergency plans for all types of facilities, and health and sanitation. 4 lab.

400 Women in Sports (3)
Prereq: jr. Examines the role of play, sports, and games in the life of women. Explores place of women in sports world, and reflects on special attitudes and structures of women's sports. 3 lec.

405 Motor Learning (4)
Prereq: jr. (fall, winter) Consideration of psychological, sociological, and physiological bases of

learning and application of these theories to performance. 4 lec.

408 The Black Athlete and American Sport (3)
Prereq: jr. Explores origins of black athlete's participation in American sport and examines role of black men and women in growth of American sport and physical activity during 19th and 20th centuries. 3 lec.

409 Tests and Measurements (4)
Prereq: PE or comm. health major. (winter) Administration and evaluation of tests in health, physical education, and athletics; practice in handling test data by elementary statistical methods. 4 lec.

411 The Olympic Movement (3)
Prereq: jr. Study of origin and development of games from Greek era to modern period. Meaning of Olympism in relation to contemporary summer and winter Olympiads explored. 3 lec.

414 Physiology of Exercise (4)
Prereq: BIOS 345 or 343. (fall, spring) Fundamental concepts an application of organ systems responses to exercise; special reference to skeletal muscle metabolism, energy expenditure, cardiorespiratory regulation, and training and environmental adaptations. 4 lec. (Same as BIOS 445.)

415 Physiology of Exercise Lab (3)
Prereq: 414 or concurrent; BIOS 345. 6 lab. (fall, spring) (Same as BIOS 446.)

416 Resistance Training: Theory and Application (4)
Prereq: 415. (winter) Explores the physiological characteristics of muscle, its adaptations to exercise, and training methods that can be used to produce these adaptations. Emphasizes both theory and application, with hands-on experience. 3 lec, 2 lab.

418A Instructional Experiences (1-3)
Prereq: perm. Supervised practice in organizing and teaching activities in college and athletic settings.

418B-E; G-Z Special Topics Seminars (1-15)
Prereq: perm.

421 Principles of Aging and Physical Activity (4)
Prereq: 125. (spring) Designed to assist students to develop knowledge and skills involving physical activities for older adults. Information concerning the effects of the aging process on physical activities, benefits of physical activities, physical activity instructional considerations, principles of physical activity programming, and physical activity strategies are presented. 3 lec, 2 lab.

447 Exercise Prescription II (4)
Prereq: 347, 414, 415. (winter) Students develop the knowledge and skills to evaluate fitness levels and the risk of exercise, write exercise prescriptions and develop exercise programming focusing on the high risk and diseased population. 3 lec, 2 lab.

448 Exercise Prescription II (5)
Prereq: 348, 414, 415; no credit if 447. Students develop the knowledge and skills to evaluate the risk of exercise, assess fitness levels, and prescribe exercise programming for individuals from high risk and/or diseased populations. 4 lec, 2 lab.

449A Cardiovascular Assessments in Exercise Physiology (4)
Prereq: 249; 414 & 415 (or BIOS 445 & 446); no credit if 448. Opportunity for students to gain in-depth understanding of electrocardiography (ECG/EKG) and other health-related cardiovascular assessment tools. 3 lec, 2 lab.

449B Exercise Testing and Prescription for Special Populations (4)
Prereq: 249; 414 & 415 (or BIOS 445 & 446); Sr; no credit if 448. Opportunity for students to gain advanced knowledge of clinical exercise physiology. Students synthesize information from foundation courses in order to make modifications of diagnostic fitness evaluations, exercise prescriptions and exercise programming for high risk individuals and those with chronic diseases and disorders. 4 lec.

460 Special Topics in Exercise Physiology (4)
Prereq: 414 & 415 or BIOS 445 & 446. Covers a variety of topics not covered in detail in other

exercise physiology courses. Topics include control of carbohydrate and fat utilization during exercise, cardiovascular regulation during exercise, neuromuscular effects of fatiguing activity, environmental exercise physiology, molecular and cellular aspects of exercise, and immune response to exercise. 4 lec.

461 Advanced Topics in Exercise Performance (4)
Prereq: 414 & 415 or BIOS 445 & 446. Expands students' knowledge on topics in the performance of exercise and provide them with "hands-on" experience in administering specialized tests and understanding and developing performance-based training. 3 lec, 2 lab.

485 Motor Development (3)
Prereq: 125 or 405. (spring) Principles and practices in perceptual-motor development as they relate to children's movement experiences. 2 lec, 2 lab.

490 Internship in Sport Sciences (16)
Prereq: sport science major, jr, perm. Elective internship with approved firm, agency hospital, unit, school, or organization.

493 Research Dynamics: Planning, Participation and Actualization of the Research Process (1-6, max 12)
Prereq: major, perm. A hands-on approach to research: developing the idea, establishing the methodology, collecting data, doing the statistical evaluation, and writing the results in publication format.

Recreation Studies (REC)

101	Orienteering	Fee= \$5	1
102	Advanced Orienteering	Fee= \$5	1
103	Survival I	Fee= \$5	1
104	Survival II		1
105	Whitewater Rafting	Fee= \$20	1
106	Hunting		1
107	Trapshooting	Fee= \$37	1
108	Technical Climbing and Rappelling	Fee= \$20	1
109	Advanced Survival	Fee= \$5	1
111	Winter Activities		1
112	Backpacking I	Fee= \$20	1
113	Canoeing	Fee= \$5	1
114	Kayaking	Fee= \$20	1
115	Ropes		1
116	Rescue Techniques	Fee= \$20	1
117	Primitive Construction		1

200 An Introduction to Leisure (4)
Prereq: fr or soph. Provides student with broad understanding of nature and scope of leisure behavior and resources on which they can build their subsequent specializations. 4 lec.

214 Camping for Special Populations (2)
Develops and teaches implementation of camping activities for special populations with emphasis on strengths and weaknesses of individual camper. 2 lec.

236 Field Experience in Recreation (1-3)
Prereq: soph, jr, or sr; major or minor; perm. Designed to provide sophomore recreation student with opportunity to acquire supervised experiences in skills and techniques involved in differing areas of recreation. 2-6 lab.

250 Recreation Leadership (4)
Prereq: fr or soph. Lectures and discussions concerning value of recreation, leadership techniques, and selection of activities. 3 lec, 2 lab.

251 Art and Nature Crafts for Recreation Programs (3)
Prereq: REC major or minor. Organization of art and nature crafts program and experiences in use of various craft materials with particular emphasis on nature crafts.

270 Introduction to Therapeutic Recreation Services (4)
Prereq: 200; (spring) Factors presented will serve as foundation for career or employment in therapeutic services in both clinical and community

settings to improve the health and well-being of those with physical, cognitive, social and/or emotional impairments. 4 lec.

275 Recreation for Individuals with Disabilities (4)

Prereq: 200, 250. Presents characteristics and leisure needs of various individuals with disabilities and techniques for planning and conducting inclusive recreation activities. 4 lec.

290 Recreational Sport Officiating (3)

Prereq: soph. (fall, spring) Provides meaningful, educational experience of practical nature in area of sport officiating. 2 lec, 2 lab.

291 Outdoor Pursuits (3)

(spring) Introduction to basic knowledge and skills necessary for participation and leadership in outdoor activities. 2 lec, 2 lab.

295 Outdoor Pursuits (4)

(spring) Introduction to basic knowledge and skills necessary for participation and leadership in outdoor activities. 3 lec, 2 lab.

301 Leisure Education and Facilitation Techniques (4)

Prereq: 200, 270. Study of leisure education models and concepts; application and understanding of facilitation techniques in therapeutic recreation services. 3 lec, 2 lab.

305 Planning and Operating Recreation Areas and Facilities (4)

Prereq: 200, 250, REC major or minor. (winter) Provides knowledge and understanding about planning and operating recreation areas and facilities. Focuses on undeveloped natural areas, developed areas, and facilities and maintenance operations. 4 lec.

310 Recreation Programming (4)

Prereq: 200, 250. (fall, spring) Concepts and fundamentals of recreation and program planning. 4 lec.

311 Expedition Management (3)

Prereq: jr. (fall) Will assist student in planning and competently leading wilderness camping expedition. Will acquaint student with all aspects of expedition leadership. Student will develop and lead expedition in competent, safe manner. 2 lec, 2 lab.

312 Medical Emergency Response (3)

Prereq: 311. Presents advanced knowledge and skills in emergency response and care for injuries, illness, respirator, cardiac, childbirth, oxygen delivery, and other emergencies. Students who successfully complete the course will receive American Red Cross emergency response certification. 3 lec, 1 lab.

313 Fitness and Wellness Programs in Campus Recreation (3)

Prereq: 200, 250. (spring) Examines elements in the organization and administration of fitness and wellness programming in campus recreation programs. 3 lec.

314 Camping and Trip Management (5)

Prereq: REC major or minor. (fall, spring) Introduction to and experiences in different methods of camping and various skills associated with camping and trip management. Fee= \$20.

315 Outdoor Education and Recreation (4)

Prereq: 200, 250, REC major or minor. (fall, spring) Designed to provide student with fundamental knowledge necessary to provide learning experiences in out-of-doors and for teaching necessary skills for outdoor living enjoyment.

316 Social Programming and Special Events in Campus Recreation (3)

Prereq: 200, 250. (winter) Examines and applies the concepts of social programming and special events as they relate to collegiate recreation programming. Includes identification of social programming and special event trends, collaborative work with other campus organizations, event planning, budgeting and staffing guidelines, program assessment, and evaluation. 2 lec, 2 lab.

320 Challenge Course Theory and Practice (3)

Prereq: 200, 250. (fall) Provides the background knowledge and skills necessary to be an entry-level challenge course facilitator. Includes foundational

knowledge and theory and the facilitation and judgment skills necessary to provide safe learning experiences for challenge course participants. 2 lec, 2 lab.

336 Field Experiences in Recreation (3)

Prereq: 275, REC major, perm. Designed to provide junior recreation student with opportunity to acquire experience in skills and techniques involved in differing areas of recreation.

345 Camp Leadership (2)

Responsibilities of camp personnel at executive, administrative, supervisory, and functional levels. Includes different types of organized camps and their individual programs.

350 Independent Study (1-5)

Prereq: jr, perm

370J Writing for Recreation Studies (4) (1J)

Prereq: jr. (winter) Allows the student to practice the writing process while investigating current issues and trends in the recreation and leisure field. 4 lec.

376 Practices in Therapeutic Recreation (4)

Prereq: 270, 275 (fall) Study of therapeutic recreation service, principles, and practices in various types of institutions. 3 lec.

381 Management of Recreational Sports (4)

Prereq: soph. (fall, winter) Organizing and administering a program of intramural sports for all age levels. 4 lec.

390 Wilderness Survival (3)

Prereq: 275. (spring) Provides student with basic skills and knowledge to survive in wilderness situation, to cope with wilderness emergencies, and to teach wilderness survival. 3 lec, 1 weekend trip. Fee= \$5.

405 Internship Seminar (1)

Prereq: jr, sr, perm. Preparation for internship and professional development. Designed to provide students with understanding of their responsibilities as well as information on goal setting, agency placements and interviewing. 1 lec.

418A Instructional Experiences (1-15)

Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

418B-Z Special Programs in Recreation (1-15)

Prereq: perm. Provides the recreation major or professional unique experience and instruction in specialized topics. Designed as short-term mini-courses, seminars, and specialized workshops. Some may have additional fees attached, check *Schedule of Classes* for information.

430 Principles of Therapeutic Recreation for the Mentally Retarded (3)

Preparation for presenting activities and evaluating mentally retarded and learning disabled children and youths in areas of body mechanics, physical fitness, games of low organization, sports, rhythms, stunts, tumbling, and recreation activities. 3 lec.

435 Management of Campus Recreation Facilities (3)

Prereq: jr or sr. (spring) Examines various aspects of campus recreation facility management including facility planning and design, facility operations, risk management, compliance, and legal liability. 3 lec.

440 Internship in Recreation (16)

Prereq: 305, 310, 336, REC major, perm. Supervised professional field work experiences in approved program of recreation.

445 Research and Evaluation Methods in Recreation and Leisure (4)

PSY 120 or 221; sr, REC major. (winter, spring) Overview of research and evaluation methods as applied to recreation and leisure services. 4 lec.

449 Recreation Administration (4)

Prereq: 305 or 310 or 440. (winter, spring) Programs and program building; administration of playgrounds, community centers, and recreational activities. 4 lec.

450 Issues in Campus Recreation (3)

Prereq: 435, jr or sr. (winter) Examines and discusses issues affecting collegiate, military, and correctional recreation programs, as well as the

issues affecting the field of campus recreation. Topics include trends, funding, sponsorships, professionalism, student development, service impact, extramural programming, and the role of the National Intramural and Recreational Sports Association (NIRSA) in personal and professional growth. 3 lec.

455 Administration of Aquatic Facilities (3)

(winter) Prepares students to supervise a facility and provides background for the mechanical functions of a pool and the organization of a total aquatic program. 3 lec.

460 Concepts and Issues in Leisure (4)

Prereq: 305 or 310, sr. (fall, winter) Study of selected leisure theory for the purpose of developing recreation programs. Tier III equivalent course. 4 lec.

470 Assessment and Documentation in Therapeutic Recreation (4)

Prereq: 376. (winter) Designed to prepare students to assess individuals who may have disabling conditions, to plan therapeutic recreation dependent on the consequences of these conditions, and to document the effects of the treatment plan. 4 lec.

471 Program Design in Therapeutic Recreation (4)

Prereq: 470. (spring) In-depth examination of therapeutic recreation planning and evaluation as it relates to specific programs using a systems theory approach. 4 lec.

472 Trends and Issues in Therapeutic Recreation (4)

Prereq: 471 (spring) In-depth investigation of contemporary professional issues and their relationship to current and future development of therapeutic recreation services. 4 lec.

473 Administration of Therapeutic Recreation (4)

Prereq: 471; no credit if 377. Preparation for administration of therapeutic recreation services; external regulations, resources, quality improvement, personnel, and advancement of the profession. 4 lec.

475 Adventure Programming (3)

(spring) Prepares student to plan, organize, and conduct outdoor adventure activities. 3 lec, 1 lab.

Sports Administration/Sport Management (SASM)

201 Introduction to Sport Industry (3)

Prereq: fr. or soph. (fall, winter) Introduction to the multiple facets of the sport industry. The knowledge gained in this course will provide a foundation for the future study of the industry. 3 lec.

225 History of the Sport Industry (4)

(fall, winter) Examines the origin and development of the sport industry in America from the 19th century to the present. 4 lec.

290 Practicum in Sport Management (1-5)

Prereq: perm. Field experiences designed to place students in various sport management related settings related to their career emphasis.

301 Sport Marketing (4)

Prereq: 201, MKT 202. (fall, winter) Introduces basic sport marketing concepts with application to amateur and professional sport organizations. Topics include promotions and public relations, sport consumer behavior, strategic marketing planning, marketing information management, and marketing communication. 4 lec.

376 Athletic Facility Planning and Management (4)

Prereq: 201, OPN 310. (fall, winter) Applies the functions of management to the development, operation, and financing of sport facilities. Facilities examined include public and private arenas, coliseums, and stadia. 4 lec.

391 Risk Management (4)

Prereq: professional standing in sport science. (winter, spring) Prepares students to assume responsibility for programs of risk management in the sport industry. Emphasizes the policies, procedures, safety audits, risk reviews, and emergency action plans needed to develop an effective risk management program. 4 lec.

412 Sports Governance and Ethics (4)

Prereq: sport industry major, jr. (fall, spring)
Focuses upon legal questions, public relations, ethics, budgeting, recruiting, crowd control, evaluation, and personnel. 4 lec.

425 Financial Issues in Sport (4)

Prereq: 201, ECON 103, FIN 325. (winter, spring)
Examines and applies the concepts of financial resource management to the operation of programs in the sport industry. Concepts examined include forms of ownership, taxation, financial analysis, feasibility studies, revenue generation, economic impact studies, and current issues in sports finance. 4 lec.

430 Sport Sponsorship and Licensing (4)

Prereq: 401. (winter, spring) Provides an overview of the elements of sport sponsorship and licensing. Content includes the rationale and benefits of sponsorship and licensing, sponsorship proposals, licensing program development, and solicitation of sponsors and licensors. 4 lec.

435 Sport Promotion and Sales Management (4)

Prereq: 301. Provides an overview of the elements of sport promotion and sales. Content includes rationale and benefits of promotion and sales, sponsorship proposals, licensing programs, and solicitation of sponsors. 4 lec.

440 Ticket Operations (4)

Prereq: 435. Introduces students to ticket operations by studying policy development and implementation, customer service, problem solving, ticket technology, will call, seat improvements and relocations, ticket transfers, and ticket sales. 4 lec.

450 Senior Seminar in Sport Management (4)

Prereq: 430 or 435; Sr. Students complete a comprehensive sports business plan in this capstone course. The plan incorporates a variety of content completed in previous classes including marketing, sponsorship, finance, risk management, governance, ethics, and the use of sports facilities. *Tier III equivalent course.* 4 lec.

490 Internship in Sport Management (16)

Prereq: jr. or sr., perm. Internship of at least 400 hours with an approved sport related organization.

Reserve Officers Training

See Aerospace Studies or Military Science.

Russian

See Foreign Languages and Literatures.

Security/Safety Technology (SST)

The following courses are available only on the Chillicothe campus:

101 Introduction to Protective Services (3)

Overview of private security profession. Student will be able to relate private security's function to its proper perspective in today's complex society and to see where private security and its various functions fit into criminal justice system.

110 Physical Security Systems (3)

Physical security requirements and standards. Includes study of various physical security systems plus technical devices employed in industrial, retail, and institutional security operations.

250 Current Problems in Security (3)

Analysis of special problem areas in security such as security education and training, community relations, labor problems, and disaster planning. Other specific areas analyzed for further research by individual students depending upon their interest. These later areas may include bank security, campus security, computer security, hospital security, and various other areas.

290A-2 Special Area Studies (3-4)

Courses designed to provide flexibility to satisfy needs of particular industry in our area of individu-

al student who would like to pursue further study in specialized area.

Social Work (SW)**101 Introduction to Social Welfare and Social Work (3) (25)**

Provides an overview of a range of social problems and society's response to them through the social service delivery system. The problems and services described include: child abuse and neglect, drug and alcohol abuse, poverty, aging, mental health and illness, corrections, and others. Within this context, various career options and professional roles will be described, including that of social work.

190 Social Work as a Profession (2)

Prereq: SW 101 or concurrent. This course, normally taken concurrently with 101, provides social work majors with a 30-hour field experience to observe operations of social service organization and roles and functions of social workers and other helping professionals. Weekly seminar.

290 Social Welfare as an Institution (4)

Prereq: 101. (fall, winter) Nature of social welfare as social institution, stressing scope of social welfare activity; historical development; value orientation; response to critical social problems, issues in social policy, and emergence of social work as profession.

410 International Social Work and Social Welfare (4)

Prereq: SW101, POLS 101. Explores international social work and social welfare in the context of global social issues. Presents an overview of the social work profession, the impact of global interdependence on social work practice, and historical and current social welfare challenges facing developed and developing nations.

350 Research Methods in Social Work (4)

Prereq: major, PSY 221, jr or perm. General overview of the social work research process, based on the problem solving method. Special emphasis on the evaluation of practice with clients. Examines measurement instruments, sampling procedures, research designs, data collection methods, program evaluation, qualitative research, ethical issues, and the writing of research reports.

380 Child Abuse and Neglect (4)

Prereq: jr or sr, 18 hrs in social sciences. Examines processes of identification, reporting, referral, and case management of child abuse and neglect cases. Multidisciplinary approach to these processes described.

381 Counseling Older Adults (4)

Prereq: PSY 101, jr. Focuses on basic counseling, communication, and intervention skills needed by persons working with aged. Problems specific to later yrs discussed. Field work component provides opportunity for interaction with older adults.

382 Understanding Alcohol Problems and Alcoholism (4)

Prereq: jr or sr. Provides knowledge and understanding of the biopsychosocial aspects of alcohol problems and alcoholism. Examines the causes and consequences of alcohol abuse, diagnostic issues, intervention, treatment, and aftercare. Also the impact of alcoholism on the family and other special groups is explored.

383 Introduction to Social Work Practice Methods (4)

Prereq: major, jr, or perm. Focuses on development of effective social work communication skills as they relate to social work relationship and professional practice.

384 Social Welfare Law (4)

Prereq: 101 or perm. Examines social work ethics, legal problems often faced by social work clients, rights of people with special needs, and social work in the criminal justice system.

385 Administration and Supervision in Human Services (4)

Prereq: jr or perm. Focuses on the description, analysis, and application of principles of administration and supervision that are relevant to human service agencies. Examines knowledge and skill bases of effective administration and supervision and applies them to the beginning employee.

390 Social Policy (4)

Prereq: 290 or perm. Examination of social policy stressing policy development; relationships of policy, goals, and organizational structure; and decision-making patterns and role assignments within social welfare organizations and agencies.

393 Dynamics of Human Behavior I (4)

Prereq: major, BIOS 103, PSY 273 or perm. (fall) First in two-course sequence designed to present holistic approach to assessing social functioning with emphasis on human diversity and integration of knowledge of behavior fundamental to practice of social work.

394 Dynamics of Human Behavior II (4)

Prereq: major, 393, PSY 374 or perm. (winter) Expands on 393 and further examines development and functioning of individual within developmental, systems, and ecological framework.

396 Social Work Practice I (4)

Prereq: major, 383, 390, 394, perm. (fall) First of three-quarter-sequence practice class. Focuses on context of social work practice, application of social work's ethical value system, communication, and development of analytical skills for engaging in problem-solving process.

397 Social Work Practice II (4)

Prereq: 396, 350, perm. (winter) Further develops the generalist approach to the problem-solving model used in 396 and applies the model to working with groups, families, and communities.

398 Social Work Practice III (4)

Prereq: 397, perm. (spring) Final phases of problem-solving process, evaluation, and termination are examined. Additional topic areas include grant proposal writing, effecting organizational change, and collecting and writing a research report. *This is a Tier III equivalent course.*

440 Mental Health and Social Work (4)

Prereq: jr., 101, PSY 332. Explores the history of mental-health policies, stereotypes associated with mental illness, and social work practice based on a strengths model. Service learning is an integral component.

450 Social Work in Health Care (4)

Prereq: SW 101 plus 8 hrs. in social sciences. Provides material regarding health care on a micro and macro level to prepare social workers to intervene in practice or policy area of health care. Understanding practice with diverse populations and the role of social work values and ethics in health care settings is emphasized.

470 Writing for Social Workers (4)

Prereq: SW 101. Focuses on the skills required to perform the range of writing tasks required of social workers, including peer review. Course is partially online and partially classroom-based.

486 Aging in American Society (4)

Prereq: jr, 12 hrs in social sciences. Review of available knowledge on critical issues and problems of aged in America. Attention devoted to social welfare programs and services designed to meet needs of elderly.

491A Integrative Seminar (2)

Prereq: 383, 390, 394, perm. (fall) First of three-quarter sequence, taken concurrently with 396 and 492A. Provides an opportunity to integrate field experience with coursework and personal reflection. Through discussion and journaling, students process activities, questions, and concerns related to the field practicum. Students develop analytical, written, and presentation skills through assignments focused on use of self within the context of a social service organization. A variety of practice issues are addressed including diversity, social justice, social work values and ethics, self-understanding, and professional development.

491B Integrative Seminar (2)

Prereq: 491A, perm. (winter) Second of three-quarter sequence, taken concurrently with 397 and 492B. See 491A for description.

491C Integrative Seminar (2)

Prereq: 491B, perm. (spring) Final quarter of three-quarter sequence, taken concurrently with 398 and 492C. See 491A for description.

492A Field Practicum (4)

Prereq: 383, 390, 394, perm. (fall) First of three-quarter sequence, taken concurrently with 396 and 491A. A three-quarter placement experience

during which students begin with observation and gradually progress toward independently assuming the social work roles of teacher, broker, counselor/clinician, and advocate in generalist practice.

492B Field Practicum (5)

Prereq: 492A, perm. (winter) Second of three-quarter sequence, taken concurrently with 397 and 491B.

492C Field Practicum (5)

Prereq: 492B, perm. (spring) Final quarter of three-quarter sequence, taken concurrently with 398 and 491C.

498 Independent Studies and Special Projects in Social Work (1-10, max 10)

Prereq: 12 hrs SW, perm. Student responsible for design and implementation of course of study or special project in area related to social work. Student interested in course must submit proposal for approval by department chair at least 30 days prior to enrollment in course.

Sociology (SOC)

101 Introduction to Sociology (4) (25)

Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, socialization, social organization, groups, institutions.

201 Contemporary Social Problems (4) (25)

Prereq: 101 or soph or above. Sociological perspectives on social problems considered. Specific social problems analyzed may include problems related to crime, sexual inequality, poverty, minority groups, drug and alcohol abuse, mental illness, environment, and others.

204 Animals and Human Society (4)

Prereq: 101. Students will learn about relationships between humans and animals historically and cross-culturally, how the meanings attached to animals structure human-animal and animal-human interactions within several institutions, and how these meanings work to perpetuate hierarchical human relationships such as racism and sexism. Several of the major philosophical positions regarding animal-human relations will be examined critically.

210 Introduction to Social Psychology (4)

Prereq: 101. Patterning of individual behavior from social interactions. Analysis of individual-group relationships in various social settings. Current theory and research in social psychology.

211 Collective Behavior (4)

Prereq: 101. Study of collective behavior including the formation of crowds; behavior in crowds; behavior in panics, disasters, fads, and riots, and the impact of collective behavior on society.

220 Introduction to the Family (4)

Prereq: 101. Emphasis on American family and how it has been changing. Topics include interaction within family, family in relation to other institutions, mate selection, marriage and its alternatives, family disorganization, and future of American family.

230 Sociology of Poverty (4)

Prereq: 101. Critical examination of theories of poverty, how poverty is defined and measured, theoretical implications of research on poor, consequences of poverty, and strategies to fight poverty.

231 Sociology of Health and Health Care (4)

Prereq: 101. Examination of social definitions of health and disease, distributions of health and disease, and health care delivery. Particular attention devoted to medical education, various health care delivery systems, and contemporary social issues in medicine.

233 Sociology of Sport (4)

Prereq: 101. Analysis of social aspects of sport, with emphasis on interrelationship of sport and society. Focuses on topics such as social values, education, sport roles, religion, socialization, mass media, sexism, and racism; oriented to student with interest in sports.

260 Criminal Justice (4)

Prereq: 101. Examination of structures and decision processes of agencies that deal with crime

and criminal offenders. An emphasis is placed on how practice is based on politically derived public policies, and how sociology can be used to analyze the practice of these agencies. Topics include criminal law, policing, court systems, sentencing, and corrections.

261 Deviant Behavior (4)

Prereq: SOC 101. Theory and research concerning major types of deviant behavior and societal reaction to such things as criminality, suicide, drug addiction, and mental disorders. Causes and consequences of deviant behavior

305 Readings in Sociology (1-6, max 6)

Prereq: 16 hrs SOC and perm. Independent directed readings designed to expand student's understanding in selected area of interest

309 Sociology of Appalachia (4)

Prereq: 8 hrs SOC, including 101. Intensive study of Appalachia from sociological perspective. Emphasis on population of Appalachia (number and distribution of inhabitants, characteristics of population, vital processes and migration), culture of rural poverty, acceptance of innovation and social change in Appalachia, major social institutions in area, and community power structure in Appalachia.

315 Social Identities (4)

Prereq: 8 hrs SOC, including 101. Examines the diversity and complexity of social relationships between the person and society in terms of identity formation. Focus will include levels of socialization and their influence on the individual as a member of mass society

327 Sociology of Education (4)

Prereq: 8 hrs SOC, including 101. School as social institution in relation to community and development of child, comparative systems of education; issues of access and inequality in delivery of educational services.

329 Race and Ethnic Relations in the United States (4)

Prereq: 8 hrs SOC, including 101. Racial and ethnic problems in America, causes and consequences of prejudice and discrimination.

331 Class and Social Inequality (4)

Prereq: 8 hrs SOC, including 101. Causes and consequences of class and social inequality in selected societies. Critical examination of ideologies that claim to justify inequality.

351 Elementary Research Techniques (4)

Prereq: SOC 101 and (PSY 121 or 221 or MATH 251 or COMS 301 or QBA 201 or ECON 381). Research techniques in sociology. Research design; collection, recording, and analysis of data.

352 Field Studies in Sociology (1-10)

Prereq: 351 and perm. Planning, execution, and writeup of empirical study, utilizing skills developed in 351. Limited class meetings, conferences with instructor, research report.

362 Criminology (4)

Prereq: 260. Theories and research in criminal behavior and societal reaction to criminality. Causes and consequences of crime.

363 Juvenile Delinquency (4)

Prereq: 260 and 351 or SW 350. Theories and research in delinquency. Causes and consequences of delinquent behavior among juveniles.

364 Police and Society (4)

Prereq: 260 and 351 or SW 350. Examines the nature and development of policing in the United States from a sociological perspective. Students are introduced to a broad range of topics including police decision making, procedural law, police culture, types of policing, police-minority relations, and police misconduct. Examines the changing role of police in society and the potential consequences these changes have for the development of social policy.

365 Sociology of Mental Illness (4)

Prereq: 8 hrs SOC, including 101. Study of social and cultural foundations of mental illness, including review of historic and contemporary definitions of madness and treatment of mental illness. Distribution of mental illness in population and social factors related thereto. Nature of commitment process and legal, moral, and social implications of commitment. Examination of legal processes pertaining to criminal insanity.

366 Sociology of Correction (4)

Prereq: SOC 260. Examination of history, operation, and problems of punishment. Patterns of prison organization, inmate group structure, personnel organization, and racism examined. Purpose and effectiveness of penal institutions described. Prisons, juvenile institutions, parole, halfway houses, and alternatives to punishment studied.

367 Corporate and Governmental Crime (4)

Prereq: 260 and 351 or SW 350. Examination of the nature, extent, and distribution of corporate, governmental, and other forms of white-collar crime. Practical issues of conducting research in these areas and the application of theory to specific cases. Particular instances of corporate and governmental crime.

403 Development of Sociological Thought (4)

Prereq: 12 hrs SOC, including 101, or perm. Major sociological concerns and concepts in relation to their social-historical setting. Special emphasis on sociological thought in 18th and 19th centuries.

404 Modern Sociological Theory (4)

Prereq: 12 hrs SOC, including 101, or perm. Critical examination of major sociological conceptual frameworks in 20th century.

406 Proseminar in Sociology (4)

Prereq: 24 hrs SOC incl. 351 and 403 or 404. Critical examination of selected theoretical and research problems. Primarily for advanced students in sociology.

407 Feminist Social Theory (4)

Prereq: 403 or 404. Provides a general overview of contemporary perspectives in feminist social theory and cultivates awareness of the implications these perspectives hold for sociology. Provides an in-depth examination of some of the most influential writings by feminist sociologists. The focus is on ways in which basic assumptions, concepts, and questions in sociology are brought to light from feminist points of view.

408 Latin American Society (4)

Prereq: 12 hrs SOC or prev course on Latin America or perm. Intensive study of Latin American society from sociological perspective. Emphasis on contemporary Latin American values, population problems, human-land relations, levels and standard of living, social institutions, urbanization, and social change.

412 Public Opinion Processes (4)

Prereq: 12 hrs SOC, including 101, or perm. Attitudes and opinions in relation to formation of public opinion; political socialization and participation; social status, reference groups, decision making; role of mass media.

413 Mass Communication (4)

Prereq: 12 hrs SOC, including 101, or perm. Personal and social functions of content in newspapers, radio, television, and film. Types of audiences and communication effects. Organization and control of mass media and problems in evaluation.

414 Contemporary Social Movements (4)

Prereq: 12 SOC, including 101, or perm. Organized movements resulting in major social changes: revolutionary, nationalistic, reform, religious; agitation, leadership, ideology; case studies of typical movements.

416 Society and the Individual (4)

Prereq: 12 hrs SOC, including 101, or perm. Exploration of compatibilities and/or contradictions in psychological systems, culture, and social structure.

419 Group Processes (4)

Prereq: 12 hrs SOC and 351 or SW 350, including 101, or perm. Major theories and methods for study of small groups as units of social systems. Communication patterns, role definition, status processes, and solidarity are among topics covered. Current research literature is stressed.

421 Comparative Studies of Family (4)

Prereq: 12 hrs SOC, including 101. The institution of marriage and family will be examined and analyzed with regard to families from different cultural, racial, and ethnic backgrounds. Special emphasis on the significance of social and cultural determinants of family life in the United States and internationally.

422 The American Family System (4)

Prereq: 12 hrs SOC, including 101. Development of the family system throughout history with an

emphasis on how changing patterns and conditions led to the formation of the American family. Problems and challenges, both at the micro and macro levels, faced by the American family today are also examined.

424 Urban Sociology (4)

Examines the social and cultural character of cities and how urban spaces shape, and are shaped by, social life. Draws on competing social theories of urban life to explore factors that have influenced the historical development of cities. Examines processes of industrialization, urbanization, and suburbanization. Other topics include ethnic segregation and the spatial patterning of inequality, uses of urban space, the social and moral order of the neighborhood, urban subcultures, urban imagery and symbolism, gentrification, and the impact of globalization on urban life.

428 Sociology of Religion (4)

Prereq: 12 hrs SOC, including 101, or perm. Interrelationship between religious institution and social structure from comparative perspective and with particular reference to American society.

429 Sociology of Race, Ethnicity, and Class (4)

Prereq: 12 hours SOC, including 329 or 331. This course is designed with a concern for understanding racism and classism at the macro level of analysis. An interpretation of social forces affecting race and ethnicity as determinants of social class will be covered. The course will enhance an understanding of racial and ethnic diversity.

430 Sociology of Organization (4)

Prereq: 12 hrs SOC, including 101, or perm. Concentrates on structure and process of formal organizations. Modern society dominated by giant bureaucracies. We shall study these bureaucracies in detail. Various sociological perspectives for viewing organizations considered and evaluated. Impact of organizations on individuals discussed and problems of living in society dominated by organizations treated in depth.

432 Political Sociology (4)

Prereq: 12 hrs SOC, including 101, or perm. Social and cultural basis of influence, power, and authority. Emphasis upon informal aspects of political process in groups and institutions other than government.

433 Sociology of Occupations and Professions (4)

Prereq: 12 hrs SOC, including 101, or perm. Professionalism as characteristic of modern economic and industrial complexes; popular conception and modern theory; social and technological preconditions; occupation-profession continuum; components, barriers, and strategy; mock-professionalism; motivation and satisfaction; controls; professionalism in particular professions.

435 Sociology of the Welfare State (4)

Prereq: 12 hrs SOC, including 101, or perm. Introduces students to major theoretical perspectives in the sociology of the welfare state, including industrialist, neo-Marxist, social-democratic, and "independent-state" perspectives. Focuses on how proponents of these sociological research perspectives deal with the emergence, organization, growth, and contemporary issues of the U.S. social welfare systems. Also some attention to the social welfare systems of Sweden and other European countries.

450 Data Analysis (4)

Prereq: 351 or perm. This course develops the ability to analyze research data in the social sciences. The linkages among measurement, statistics, and interpretation of results in social research will be explored. Unscheduled computer laboratory commitment is required.

451 Intermediate Data Analysis (4)

Prereq: 450. Introduction to fundamentals of multivariate analysis. Topics covered include simple linear and multiple regression, analysis of variance and covariance, and logistic regression.

453 Research Problems in Sociology (2-6)

Prereq: 20 hrs SOC, including 351, and written perm prior to registration. Individual research in specific problem areas in which student has demonstrated ability and interest.

464 Law and Social Control (4)

Prereq: 12 hrs SOC, including 101, or perm. Explores the nature of institutional control and sociocultural constraint as they affect human behavior. Issues covered include the development of formal control mechanisms in societies, the binding force and authority of law, precursors of legislative and judicial law, the effectiveness of formal control mechanisms for reducing specific behaviors, how administrative agencies increase regulation of daily life and "net widening" occurs, and law's effectiveness as a social change agent. Reading material covers the U.S. and some other societies.

465 Social Change (4)

Prereq: 12 hrs SOC, including 101, or perm. Dynamics and processes by which social change takes place; major theories of change; industrialization and modernization; social evolution and revolution; planned change; social impact of change.

467 Violence Against Women (4)

Prereq: 16 hrs SOC. Examines related forms of violence where women are the predominant victims: forcible rape, marital rape, incest, spousal assault, date rape and assault, and sexual harassment. Role of pornography will be examined. Emphasis placed upon current theoretical and empirical findings and developments.

470 Sociology of Gender (4)

Prereq: 12 hrs SOC, including 101, or perm. Examination of social and historical factors that have kept women subordinate to men in family and prevented them from achieving equality in labor force. Also explores prospects for change.

471 Gender and Justice (4)

Prereq: 12 hrs SOC. Explores how the interpretation and application of criminal law reflects assumptions about men's and women's natures, appropriate roles, and positions in society. Readings examine changes and stability in the prosecution of violence against women; the prosecution, sentencing, and correction of women offenders; women's and men's access to the profession of law and other legal positions; and conceptions of justice. Readings highlight how race, class, and gender intersect and how structure and interpersonal interaction contribute to observed outcomes.

491H Honors Thesis in Sociology (5)

Prereq: Permission; enrolled for Dept. Honors. This course is designed individually for students pursuing departmental honors. The work is undertaken under the supervision of a faculty member and may extend for up to one academic year.

495 Internship in Criminology (5-10)

Prereq: sr criminology major, SOC 260, 351, 362, and perm. Provides internship experience for students majoring in pre-criminology/sociology. Students will have opportunity to apply social science knowledge and methodologies and to gain direct job-related experience in criminal justice related agency.

Southeast Asian Studies

See International Studies

Spanish

See Foreign Languages and Literatures.

Specialized Studies (SPST)

425 Senior Seminar (2)

Prereq: sr, specialized studies major. Seminar for specialized studies seniors, examining opportunities, challenges, and issues of the 21st century workforce. Includes engaging in self-assessment, reflection and analysis of degree program, and developing a portfolio that documents learning accomplishments.

490 Internship (1-10)

Prereq: specialized studies major, permission. This course provides an internship experience for

students in the Bachelor of Specialized Studies (B.S.S.) program.

499 Thesis (1-5, max 15)

Prereq: specialized studies major, permission. Work on research or creative project for thesis; intended for students who plan to graduate with B.S.S. departmental honors.

Swahili

See Foreign Languages and Literatures

Technical and Applied Studies (TAS)

301 Introduction to Technical and Applied Studies (4)

This course will introduce technical associate degree holders to professional studies through an examination of program requirements and goals. The historical overview of the development of various technologies and their influence on civilization will lead to the consideration of the nature of technology and its many societal functions. Within that historical and theoretical context, students will be introduced to various management technologies and theories of leadership, and will be required to assess their individual beliefs and skills.

321 Research for Technical and Applied Studies (4)

Prereq: TAS 301 and either PSY 120 or 221 or QBA 201 or MATH 250 or 251. No credit if PSY 226 or SOC 351 already taken. This course emphasizes both an understanding of research methods and the development of the critical skills necessary to interpret and to convey research results. In addition to analyzing research methods, the students will examine current technological applications designed to aid the conduct and evaluation of research. Students will analyze research projects in areas of related interest.

451 Technical and Applied Studies Capstone Seminar (4)

Prereq: TAS 421 and senior standing. A capstone for the BTAS degree, this course requires integration and application of professional knowledge, skills, and technologies in order to complete a professional project for a business, industry, or community organization.

Telecommunications (TCOM)

100 A Mediated World (4)

Prereq: TCOM freshmen only. The course exposes freshmen entering the School of Telecommunications to the use of telecommunications as a means of exploring, analyzing, and responding to the social world. It introduces freshmen to the nature of the field and its cultural implications, and presents the structure and operation of the school and its programs.

101 Introduction to Telecommunications (2)

An introduction to the School of Telecommunications. Designed to help students begin to maximize educational and professional opportunities in preparation for a career in the media industries.

105 Introduction to Mass Communication (4) (25)

Prereq: non-majors only. No credit if taken JOUR 105. All forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities.

150 Introduction to Digital Media Technologies (4)

Deep exploration of the processes and tools of digital media production.

170 Media Perspectives (4)

Prereq: Non-majors only. Studies role of electronic mass media in American popular culture through

examination of uses, forms, themes, and implicit values. Combines lecture, discussion, and analysis of personal media uses.

184 TV/Film Comedy (4)

Analyzes media comedy, including theories of humor and types, styles, techniques, and varieties of TV and film comedy from the silent-movie greats through comedy teams, slapstick, sentimental, screwball, and situation comedies

203 Media and the Creative Process (4)

This course introduces the process of creating media products. Examines how different media industries approach the creative process, how media artists find creative inspiration, and how to locate and utilize a variety of resources to express a creative vision for media audiences/buyers.

204 The Business of Media (4)

This course provides an intensive overview of how business is conducted in the media industries. Students will examine: (1) the fundamental relationships between art and commerce in the media industries; (2) the structure of media companies; (3) the strategies media companies use to attract audiences/buyers; (4) the various ways media evaluate their products; and (5) the ethical issues that impact current media practices.

205 Media Analysis and Criticism (4)

Introduction to the techniques and practices of media analysis. Designed to provide critical skills to understand media products for the messages embedded within them, the different interpretations that various audience members or users take away from them, and how those products can change or not in a global world.

220 Introduction to Audio Production (4)

Prereq: C or better in 203, 204, and 205, and audio sequence major (all tracks). Introduction to basic audio theory and production skills, including desktop audio production, commercial production, mixing, microphone theory and techniques, sound design, and digital audio basics.

231 Short-form Media Scriptwriting (4)

Prereq: C or better in 203, 204, and 205. Writing for a variety of short form broadcast formats, including radio and television features, talk shows, documentaries, and instructional programs.

240 Introduction to Video Production (4)

Prereq: C or better 203, 204, and 205, video sequence major, or audio post-pro major. Introduction to basic video production skills and aesthetics.

250 Introduction to Multimedia Production (4)

Introduction to the processes and tools involved in the production of interactive multimedia projects involving sound and moving images.

251 Nontraditional Storytelling (4)

Examines various approaches to the story creation process including writing nonlinear or interactive stories for entertainment and instructional applications.

253 Nonlinear Video Editing (4)

Deep exploration of the processes and tools of digital nonlinear editing of video material.

260 Mass Communication Theories (4)

Prereq: C or better in 203, 204, and 205. Readings course surveying literature in mass communication theory. Special emphasis on telecommunications.

279 History of Telecommunications (4)

Prereq: C or better in 203, 204, and 205. Covers social, political, and economic aspects of technologies ranging from telegraphs and Babbage enumerators to broadcasting, cable, satellite distribution, and video streaming over the Internet.

308 Technical Basis of Telecommunications (4)

Prereq: C or better in 203, 204, and 205, MGT major. Electronic principles of reproduction and transmission of sounds and images; functions of audio and video equipment.

313 Field Audio Production (4)

Prereq: audio sequence major (media production track) and 220, 308. Location audio production techniques, including planning, acoustics, live recording and live sound reinforcement, among others.

318 Multiple-Camera Producing and Directing (4)

Prereq: 240, video sequence major; portfolio review. Multiple-camera producing and directing. Lab experience in production of original studio programming.

319 Advanced Single-Camera Producing and Directing (4)

Prereq: 240, video sequence major; footage; permission. Producing and directing original video productions using single-camera "film style" technique. Includes all phases of production process from concept to post-production.

320 Recording Industry Survey (4)

Prereq: audio sequence major (music track) and 220, 308. An examination of the history, people, and business practices of the recording industry. Topics include: impact of the recording industry, structure of a record label (marketing, sales, promotion, legal, advertising, artist relations, A&R, etc.), music publishing, copyright, product acquisition, among others.

350 Evolution of Multimedia (4)

This course aims to define "multimedia" by studying the historical uses of multi-modal and digital projects. Through discussion and research, students will gain concrete sense of the development and future of multimedia.

351 Computer Animation (4)

Prereq: Video major; C or better 240 or perm. Advanced animation and computerized graphic design for video.

352 3D Modeling and Animation I (4)

Introduction to fundamental modeling and animation techniques applied to a 3D world. Major emphasis is on the creative process and modeling forms.

353 3D Modeling and Animation II (4)

Introduction to fundamental modeling and animation techniques applied to a 3D world. Major emphasis is on animation and movement.

354 Interactive Video Production (4)

Deep exploration of the processes and tools of interactive digital video authoring.

355 Broadcast and Cable Programming (4)

Prereq: jr or sr nonmajor; C or better in 202, 203, 204, and 205, and jr or sr major. Broadcast and cable programming principles and practices; analysis and evaluation of programs and program formats.

356 Game Development (4)

Introduction to the producer's role in the development of digital games.

357 Digital Games and Global Culture (4)

Covers the history and economic development of the digital games industry both domestically and globally. Contemporary topics such as violence debates, the girl game movement, the role of literary analysis in game studies, and other areas of interest also explored

358 Digital Game Production (4)

Introduction to planning, production, and delivery of digital games. Through practical exercise this class will expose students to the game creation process, including interface and game play.

360 Electronic Media Management (4)

Prereq: major, C or better in 203, 204, and 205. Intensive overview of bases of telecommunications management; includes concepts relating to management theory, personnel motivation, organizational communication, and management's relationship to various aspects of organizational operation.

367 World Media Systems (4)

Prereq: jr or sr nonmajor; C or better in 203, 204, and 205 and jr or sr major. Analysis of national telecommunications systems in terms of political, social, economic, and cultural factors.

371 Effects of Mass Communications (4)

Prereq: 260 non-major; 260 and C or better in 203, 204, and 205 major. Course is designed to acquaint students with social effects of mass media.

384 Media Criticism (4)

Prereq: jr or sr nonmajor; C or better in 203, 204, and 205 and jr or sr major. Survey of contemporary methods of critical analysis as

applied to television. Screenings include television programs of past, present, avant garde, and mainstream.

390 On-Campus Practicum (1)

Prereq: TCOM major. Practical experience in Ohio University telecommunications facilities, including the All Campus Radio Network, Athens Video Works, and the Telecommunications Center training program.

391 Off-Campus Practicum (1)

Prereq: TCOM major. Practical experience in off-campus media facilities. May be taken during quarter breaks or in summer. Students are required to submit a proposal and work at least 40 hours.

405 Research Internship (1-9)

Prereq: C or better in 203, 204, and 205 and perm. Opportunity for student to implement and complete major research study under supervision.

413 Commercial Music Recording and Production (4)

Prereq: audio sequence major (music track), 220, 308, and 315. Advanced studio production techniques in music production with introduction to digital multitrack recording, recording studio procedures and business practices, typical equipment set-ups, ancillary equipment, advanced microphone techniques and advanced digital audio workstation applications. Aesthetic topics as they relate to music recording and production and current commercial music industry trends.

414 Advanced Projects in Music Production (4)

Prereq: audio sequence major (music track), 413. Advanced music recording and product development. Album production from artist development to CD mastering and replication will be covered.

415 Audio Post-production for Moving Image (4)

Prereq: audio sequence major (audio post-production track) 220, 240, 308. Audio post-production for moving picture. The course will explore the technical and aesthetic aspects of sound as it relates to the moving image. Mixing to picture, SMPTE synchronization to video, Foley sound effects, dialogue replacement, and music for picture will all be covered.

418 Producing for Video (4)

Prereq: 318. Developing programs for commercial, public, and corporate television. Covers program research, development, testing of program concepts, and the production process.

419 Advanced Video Project Design (4)

Prereq: Perm. Special projects in dramatic production for visual media.

421 Nonbroadcast Video Systems (4)

Prereq: TCOM 240; jr. or sr. Study of use and management of telecommunications media in corporate, industrial, medical, educational, military, governmental, and public service institutions.

425 Digital Video Post-production (4)

Prereq: permission. Explores postproduction as design. Students will work on the process of assembling and manipulating previously existing material including video footage and material from print, CD-ROM, Internet, computer disk, and audio from various recorded media.

430 Script Analysis (4)

Prereq: jr or sr. Analysis of narrative media scripts, programs, and films with special concentration on their construction, audience response, and factors in effectiveness.

431 Screenwriting for Film and Television (4)

Prereq: jr or sr nonmajor; Writing and critique of form, structure, and presentation of dramatic programs, series, and films.

432 Advanced Screenwriting for Film and Television (4)

Prereq: perm. Advanced writing course in which the experienced student creates substantive scripts.

440 Public Telecommunication (4)

Prereq: sr major. Historical development, current status, and challenges to public broadcasting.

453 Telecommunications Law and Regulations (4)

Prereq: C or better in 203, 204, and 205 and jr or sr. Sociopolitical control of telecommunications; effects of law and regulations upon telecommunications policy and operation.

454 Personal Values in Telecommunications (4)

Prereq: jr or sr. Explores the nature of personal values and surveys the values that have shaped and are shaping American culture. Examines the role of the individual within media institutions and media within American culture.

456 Advanced Game Development (4)

Advanced issues and process in the development of digital games.

457 Digital Media Senior Capstone (4)

Deep exploration of the processes and tools of digital media production.

459 Audience Research (4)

Various methods, techniques, and applications of audience study in broad-casting and cable; includes study of current rating services.

461 Electronic Media Financial Management (4)

Prereq: 360, and C or better in 202. Consideration of fiscal problems in operation of radio, television, and cable industries, with special emphasis on economics and financial policies.

462 Broadcast and Cable Sales (4)

Prereq: 360 nonmajor, 360, MGT sequence, and C or better in 202 major. Consideration of policies and practices with reference to sales management in radio, television, and cable.

463 New Technology (4)

Prereq: sr. Examination of emerging technologies of telecommunications, their origins, audiences, regulations, interrelations with other media, and specific applications.

465 Satellite Communications (4)

Prereq: sr. Role of satellites in global communications from historical, technical, regulatory, economic, political, and programmatic perspectives.

475 Politics and the Electronic Media (4)

Prereq: sr. Examines role of electronic media in election campaigns through study of campaign strategy, polling, commercial advertising, and news coverage.

481 Women in Media (4)

Prereq: jr or sr. Examines representation of women in media through an exploration of individual attitudes and values with respect to culture, sexism, and content analysis of media.

482 Documentary Genres (4)

Prereq: jr or sr. Explores the various genres of documentary video and film with a particular emphasis on television documentary and recent video works. Deals with such topics as historical development, factuality and truthfulness, objectivity, and ethics. Assignments and discussion are based on an extensive schedule of screenings. This course provides an examination of the evolution of television genres. Its intent is to provide students with an aesthetic, historic, and critical underpinning which informs the production of new genre formations even as the historic programmatic flow has become increasingly niche-driven. As such, TV genres triangulates media studies with political economy of television and audience and textual analysis.

483 Children and Television (4)

Prereq: C or better in 203, 204, and 205 or sr. Explores the many issues that define the relationship between children and television: the variety of television programming available for children; the unique perspective children bring to television; the public debates over the effects of television on children; and the responsibilities of the industry, the government, and adults.

485 African-American Televisual Images (4)

Prereq: 202. Investigates the construction of televisual imagery, stereotypes, and counter-images of African-American people from the inception of the television age (1948) to the present.

486A Age, Class, Gender, Race, Sexual Orientation (4)

Prereq: jr or sr. Examines the representations of age, class, gender, race, sexual orientation in

various media (mainstream and alternative), as well as perspectives for interpretation.

486Y Athens Video Works (1-4, max 12)

Prereq: Perm. Colloquium and advanced practicum for producers, directors, and managers in Athens Video Works.

486 Colloquium in Telecommunications (1-5)

Prereq: perm. Intensive study of special topics in field of telecommunications.

490 Internship in Telecommunications (2-16)

Prereq: jr or sr and perm. Telecommunications experience under auspices of cooperating organization, with paper and journal submitted detailing intern's experiences. Only 4 hrs can be used to satisfy TCOM electives.

493 Motion Graphics (4)

Deep exploration of the processes and tools of motion graphics in video production.

494 Advanced Digital Video Postproduction (4)

Deep exploration of the processes and tools of digital nonlinear editing of video material.

497 Independent Production Projects (1-4, max 12)

Prereq: perm and written proposal. Independent projects in audio and video production.

498 Special Problems (1-4, max 12)

Prereq: written proposal and perm.

499 Independent Readings in Telecommunications (1-4, max 12)

Prereq: written proposal and perm.

Theater (THAR)

The following courses of instruction in theater provide further clarification of the curricular requirements and models outlined in the School of Theater section of College of Fine Arts under Colleges and Curricula. All theater majors maintain close contact with their assigned advisor for guidance and clarification in programming. If you have not been assigned an advisor, contact the School of Theater office on the third floor of Kantner Hall. Further information concerning course listings is available from the School of Theater office.

090 Lunchbag Theater Seminar Series (0)

Seminar and discussion about trends in theater scholarship, production, and performance techniques. May be repeated.

101 Introduction and Orientation to the Theater as a Profession (1)

(fall) Acquaints theater majors and other interested students with professional theater. Examines varieties of theater institutions (educational, commercial, regional, etc.), role of administrator, producer, and director and historical background for state of American theater.

105 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

110 Introduction to Performance (2)

Prereq: theater major. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, development of physical and vocal freedom through improvisation and theater games.

111 Acting Improvisation I (2)

Prereq: theater major. Verbal and nonverbal improvisation. Emphasis on presence, spontaneity, action, and invention through exercises and improvisations.

112 Introduction to Performance Warm-up (2)

Prereq: theater major. Introduction to the study and practice of the actor's physical and vocal warm-up for rehearsal, training, and performance.

113 Acting Fundamentals I (4)

Prereq: non-major. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, and development of physical and vocal freedom through improvisation and theater games.

130 Design Principles for the Stage (3)

Principles of scenography design. 2 lec, 1 lab.

131 Practical Elements of Stagecraft (3)

Principles of technical production. 2 lec, 1 lab.

135 Practicum in Production Design (1-4)

Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the schools of Comparative Arts, Music, Dance, and Theater with seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the four performances. No credit to those with credit for CA 150, DANC 150, or MUS 150.

151 Fundamentals of Playwriting (3)

Prereq: theater major or theater minor. Introduction to the principles and practices of dramatic writing.

170 The Theater Experience (4) (2H)

Exploration of nature and function of theater as art form through exploration of performer/ space/ audience interrelationship. Attendance at selected rehearsals and performances of Ohio University Theater productions augment lecture and discussion sessions. Attendance at selected professional theatrical performances may be included.

171 Play Analysis (3) (2H)

Introduction to text analysis based on premise that understanding of play's text is important step toward understanding both performance of that play and means by which that performance is created. Attendance at Ohio University Theater productions is important augmentation to class lectures and group discussions.

172 Elements of Performance (3)

Prereq: theater major or theater minor. Introduction to the elements of performance that create theater and drama, including text, performer, spectacle, spectator, and performance space. The emphasis is on the analysis of the text, how the text works as part of the performance, and how the text is brought to life in performance. Attendance at Ohio University Theater productions is required.

201 Play Production (4)

A study of all the areas associated with the production of a play. Students have the opportunity to apply classroom theory in a practical production environment.

205 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

207 Practicum in Production Stage Management (4)

Prereq: Soph only. Supervised lab practice as a production stage manager for one of the School of Theater plays.

210 Acting I (4)

Prereq: theater major and perm. Principles and techniques of acting with emphasis on playing action (Stanislavsky). Self-discovery, warm-up techniques, theater games, improvisation, monologue exercises, preliminary scoring techniques, and script analysis techniques for actors underline this introduction.

211 Acting II (4)

Prereq: theater major and perm. Principles and techniques of acting with major emphasis on action and characterization. Scenes and monologues from American and other modern and contemporary drama.

212 Acting III (4)

Prereq: major, 210 or 211, and perm. Long duet scenes, multi-character scenes, and short plays for study and performance. Grad directors and public performances are frequently incorporated into final work.

213 Acting Fundamentals II (4)

Prereq: 110 or 113. Study of acting and the actor from the point of view of strengthening concentration and commitment to performance tasks; introduces principles of text and character scoring.

215 Practicum in Acting (1-4)

Prereq: soph, audition. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

216 Introduction to Stage Movement (2, max 4)

Prereq: theater major or perm. Introduction to physical and movement elements of the actor's craft and stage performance, including neutral presence, alignment, walking, and availability. May be repeated.

217 Introduction to Voice (2, max 6)

Prereq: theater major or perm. Individual and group instruction in basic elements of voice training for the stage. May be repeated.

218A Voice/Speech Training for Broadcasters: Lessac Approach (2)

Group and individual instruction in basic elements of vocal training through Lessac system.

218B Voice/Speech Training for Broadcasters: Lessac Approach (2)

Prereq: 218A. Continuation of 218A; see 218A for description; must be taken in sequence.

218C Voice/Speech Training for Broadcasters: Lessac Approach (2)

Prereq: 218B. Continuation of 218A-218B; see 218A for description; must be taken in sequence.

230 Stagecraft: Scenery (3)

Prereq: 130. Procedures and practice in theatrical production; practical experience.

231 Stagecraft: Lighting (3)

Prereq: 131. Procedures and practice in theatrical production; practical experience.

232 Stagecraft: Costume (3)

Prereq: 131. Procedures and practices in theatrical production; practical experience.

233 Theatrical Design Skills (4)

Prereq: perm. An introduction to fundamental design skills, visual research, drafting, model construction, and script analysis as applied to design.

235 Practicum in Production Design (1-4)

Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

237 Basic Makeup (1)

Theory and practice of stage makeup. 1 lec, 1 lab.

250 Playwriting I (4)

Prereq: 151. Introduction to theories of playwriting in particular, and dramatic writing in general. Students will be introduced to basic structure, idea development, character and plot development.

270 Theater History I (4)

Development of theater and drama in prehistoric, Greek, and Roman periods. No credit to those with credit for CA 270.

271 Theater History II (4) (2H)

Development of theater and drama in medieval and Renaissance periods. No credit to those with credit for CA 271.

272 Theater History III (4) (2H)

Development of theater and drama from Renaissance to modern. No credit to those with credit for CA 272.

297T Theater Tutorial (1-15)

Prereq: perm. Subject matter of course arranged by tutorial student in consultation with School of Theater tutorial advisor.

298T Theater Tutorial (1-15)

Prereq: Honors Tutorial. See description for 297T.

299T Theater Tutorial (1-15)

Prereq: Honors Tutorial. See description for 297T.

305 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

307 Practicum in Production Stage Management (4)

Prereq: juniors only. Supervised lab practice at the junior level as the production stage manager for one of the School of Theater plays.

310 Audition Technique and Practice (3)

Prereq: performance major or perm. Preparation of audition materials, experience in various audition spaces, development of techniques for cold reading, solo and duet, "scene of choice," and the development of positive attitudes toward the audition.

311 Improvisation II (2)

Prereq: performance major or perm. Advanced exploration of non-scripted performance modes and creative presence through improvisations and exercises.

312 Scene Study I (2-4)

Prereq: performance major or perm. Advanced undergraduate actors rehearse and perform in scenes or short plays, sometimes directed by faculty or 2nd-yr grad directors.

313 Acting Studies I (4)

Prereq: 210 or 213. Continuation of work begun in 213 with special application to scene work.

314 Theater Performance: Selected Topics (2-3)

Prereq: performance major, perm. Advanced performance studio. Explores nontraditional performance and contemporary drama. Emphasis is on the performer as creator. Guest artists may be brought in to enrich the class experience. May be repeated.

315 Practicum in Acting (1-4)

Prereq: jr, audition. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

316 Movement Theater I (3, max 9)

Prereq: jr, performance major or perm. Principles and techniques of theater movement. May be repeated.

317A Voice for the Stage I (3)

Prereq: performance major. Principles and practice in vocal action for stage.

317B Voice for the Stage II (3)

Prereq: 217C. Principles and practice in vocal action for stage.

317C Voice for the Stage III (3)

Prereq: 317B. Principles and practice in vocal action for stage.

318 Practical Phonetics (2)

This course is designed for international students and teaching assistants who wish to improve their speech, pronunciation skills, modify accents or regionalisms for a more effective communication. Exercises to address resonance, projection, and pitch intonation will also be introduced.

327 Practicum Stage Management (2-4)

Prereq: perm. Supervised practical experience Stage Managing one of the School of Theater's plays.

330 Elements of Technical Direction (4)

Prereq: perm. Introduces technical theater students to the mechanics of structures, as well as the management skills related to the work of the contemporary technical director.

331 Theory of Lighting (4)

Prereq: 231 and perm. Creative processes in design and execution of lighting for proscenium and non-proscenium forms.

332 Costume Design I (4)

Prereq: perm. Application of principles of design to stage costuming, with emphasis on figure drawing, characterization, and conceptualization.

333 Fundamentals of Scene Painting (1-4)

Basic materials, techniques, and theory of painting for the stage.

334 Scene Design (4)

Prereq: 233. Principles and projects in scene design.

335 Practicum in Production Design (1-4)

Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

336 Props and Crafts Techniques (4)

Prereq: perm. An introduction to theatrical crafts, casting, and soft sculptural construction techniques and materials, as well as painting and decorative techniques.

336A Digital Drawing for Theater: Photoshop

Illustration techniques. Prereq: perm. This course uses Photoshop to teach digital drawing and painting techniques, collage and layering techniques, and photo correction and reproduction techniques for theatrical design research, illustration, and digital portfolio development.

336B Digital Drawing Topics (1-4)

Prereq: perm. This course teaches digital drawing, drafting, rendering, modeling, illustration, and photo reproduction skills necessary for theatrical designers and technicians engaged in production design and construction processes, research and portfolio development.

337 Advanced Makeup (3)

Prereq: 237. Caricature, 3-dimensional and non-realistic makeup; rubber prosthesis.

338 History of Costume (4)

Development of dress and influence of cultural factors from the Greeks to 1900.

345 Ohio Valley Summer Theater Practicum (1-6)

Prereq: perm. Supervised practice and experimentation in the company operation of a community theater performance project. May be repeated for credit.

350 Playwriting II (4)

Prereq: 250 and perm. Theory and practice of dramatic writing.

397T Theater Tutorial (1-15)

Junior-level tutorial class for students in the Honors Tutorial College.

398T Theater Tutorial (1-15)

See description for 397T.

399T Theater Tutorial (1-15)

See description for 397T.

402 Theater Management (4)

Prereq: Junior. Procedures and practices in management of theater, including theater publicity, marketing, finance, ticket office, and house management.

405 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management.

407 Practicum Production Stage Management (4)

Prereq: seniors only. Supervised lab practice as a production manager for one of the School of Theater's advanced level plays or related production.

409 Independent Studies in Administration (1-6)

Prereq: perm and independent study form. Allows advanced theater major to develop study project in aspects and problems of theater administration beyond normal course offerings.

410 Scene Study II: Selected Topics (2-4, max 12)

Prereq: performance major or perm. Advanced performance studio. Topics vary. Genre- or topic-specific courses may include 20th-century innovators, Beckett and beyond, second series, radio drama, and theater performance. Courses emphasize application of research and studio experience with significant drama. May be repeated.

411 Acting IV (3)

Prereq: performance major or perm. Advanced performance studio. Topics vary. Exploration of acting through exercises and scenes with specific genres and topics, including Ibsen/Chekhov and Shakespeare. Examines specific requirements, similarities, and differences in historically significant theater. May be repeated.

412 Acting for Camera (3)

Prereq: perm. Performance experience in television acting with special emphasis on studio policies and operations, relationship of talent to the whole process of television production, analysis of camera performance techniques, and the production of scene work. This course is offered in conjunction with TCOM 419.

413 Acting Studies II (4)

Prereq: 313. Application of principles and techniques learned in earlier classes to a full text leading to public performance.

414 Acting V: International Performance—Selected Topics (3)

Prereq: performance major, perm. Advanced performance studio. Emphasizes exploration of specific performance skills in verbal and nonverbal international performance. In a given quarter, the focus can be as broad as drama of a region or country (Africa, Latin America, Asia, Middle East, Argentina, South Africa, Indonesia, Chile, India) or as specific as dramatic forms, authors, movements, and methods (Noh, ritual drama, masked dance and drama, Athol Fugard, Zakes Mda, Augusto Boal and the Theater of the Oppressed, Tadashi Suzuki, etc.). Guest artists may be brought in to enrich the class experience. May be repeated.

415 Practicum in Acting (1-4)

Prereq: senior, audition. May be repeated. Supervised lab practice in rehearsal and public performance of roles.

416 Movement Theater II (3, max 9)

Prereq: sr. performance major or perm. Advanced principles and techniques of movement theater, including improvisation and composition. May be repeated.

417 Advanced Voice Training: Dialects and Scansion (2)

Prereq: sr. performance major. Introduction to and experience in scanning essentials of versification as it particularly applies to reading of dramatic lines. Introduction to study of dialects through use of study tapes and other source materials.

418 Senior Project (2-4)

Prereq: sr. theater major. Written component (short paper) of the performance project designated by the student and advisor as the senior project.

419 Independent Studies in Acting (1-6)

Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of acting beyond normal course offerings.

420 Advanced Directing (4)

Prereq: Senior BFA/BA THAR major or perm. for minors. Practical experience in directing for stage.

425 Practicum-Directing (1-4)

Prereq: perm, max 12 hrs.

426 Stage Management (3)

Prereq: perm. Theoretical course in techniques and methods of professional stage management.

427 Practicum in Stage Management (2-4)

Prereq: 426 and perm. Supervised practical experience in stage managing of University theater or related production.

428 Stage Management II (4)

Prereq: 426. The stage manager's role in various different professional theater organizations and their union contracts will be covered. Theater internships, resumes, and cover letters will be taught.

429 Independent Studies in Directing (1-6)

Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of directing beyond normal course offerings.

430 Advanced Stagecraft (4)

Prereq: 230, 231, 232. Advanced problems of scenery construction, handling, and rigging.

430A Introduction to Stage Rigging (4)

Prereq: 430. This course focuses on safe and acceptable standards for stage rigging practices within the entertainment industry.

430B Welding for the Theater (2)

An introduction to the materials and techniques of welding and metal fabrication for the scenic technician.

430C Application and Technique for Theatrical Softgoods (1-4)

Prereq: 230. Introduction to contemporary theatrical fabrics and the creation of theatrical softgoods.

431 Lighting Design II (4)

Prereq: 131, 231, 331. Provides the student oppor-

tunities for preparation and critique of lighting design projects in a variety of theatrical contexts.

432 Costume Design II (4)

Prereq: 332, 338. Application of principles of design to stage costuming, with emphasis on conceptualization and period work.

434 Scene Design II (4)

Prereq: 334. Provides student with a series of design projects with an emphasis on portfolio preparation.

435 Practicum in Production Design (1-4)

Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound.

436A Model Construction for the Scene Designer (4, max 8)

Prereq: perm. Introduction to the materials and techniques of model construction for the stage, including 1/4" and 1/2" scale models—experimental, working, and presentation models.

436B Drafting for the Stage (4, max 8)

Prereq: perm. Fundamental and advanced problems of drafting for the stage, including plans, sections, front elevations, rear elevations, and details.

436D Costume Period Patterning Techniques (4, max 12)

Prereq: perm. Introduction to draping and advanced period construction and patterning techniques. Advanced sewing ability is required.

436E Problems in Costume Technology (4, max 8)

Prereq: THAR 232 and permissions. A specialized study of skills, formulas, and techniques used in solving costume technology problems.

436F Properties Construction and Organization for the Stage (4)

Prereq: perm. To introduce the student to the organizational skills and craft techniques required to hold a job in a professional prop shop.

437A Sound Design I (4, max 12)

Prereq: perm. Principles and functions of sound design for the theater.

437B Sound Production (4, max 12)

Prereq: perm. Principles, characteristics, and techniques in the use of sound equipment for the theater.

438A Historical Bases of Design I (4)

Prereq: major or perm. Survey of research techniques in history, the arts, and period "style" from Antiquity to Early Renaissance in Western Civilizations for the purpose of theatrical production.

438B Historical Bases of Design II (4)

Prereq: major or perm. Continuation of 438A, covering the period from the High Renaissance to the present.

439 Independent Studies in Production Design (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of production design beyond normal course offerings.

440 Professional Theater Internship (1-16)

Prereq: perm.

450 Advanced Playwriting (4, max 12)

Prereq: 350, playwriting major. Special problems in writing long plays.

451 Playwrights Workshop (3, max 9)

Prereq: perm. Practical workshop experience for playwrights, directors, and actors with new scripts. May be repeated.

459 Independent Studies in Playwriting (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of playwriting beyond normal course offerings.

465 Practicum in Directing (1-4)

Prereq: perm. Supervised lab practice in planning and executing dramatic production.

470 Tragedy (4)

Prereq: jr or sr. Study of tragic genre through both plays and critical and theoretical documents. No credit to those with credit for CA 470.

471 Comedy (4)

Prereq: jr or sr. Study of comic genre through both plays and critical and theoretical documents. No credit to those with credit for CA 471.

472 Forms of Drama (4)

Prereq: jr or sr. Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents. No credit to those with credit for CA 472.

473 Seminar in Theater History and Drama: Selected Topics (4, max 16)

Prereq: THAR or CA 270 or 271 or 272. An in-depth examination of a selected area of theater history and drama. May be repeated for credit.

475P Practicum in Dramaturgy (2-6, max 24)

Prereq: perm. Practical experience as a dramaturg on School of Theater productions, including historical, textual, and biographical research, as well as audience outreach activities.

477 American Theater and Drama (4)

Prereq: jr or sr. Study of significant movements and major playwrights of the American theater, with an emphasis on the 20th century.

479 Independent Studies in Theater History and Criticism (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of theater history and criticism beyond normal course offerings.

497T Theater Tutorial (1-15)

Senior level tutorial class in theater subjects for students in the Honors Tutorial College.

498T Theater Tutorial (1-15)

See description for 497T.

499T Honors Tutorial (1-15)

See description for 497T.

Tier III (T3)

Tier III, the final element of the General Education program, is a senior-level requirement for students who entered the University in September 1982 or after. Students may fulfill this requirement by taking one Tier III course or one Tier III equivalent course in their major. They should see their major advisor for information as to whether their discipline offers such a course.

Two key ideas spurred the thinking that went into the creation of Tier III. One was structural, the other theoretical. The framers of the General Education Requirements believed that a solid and meaningful program of liberal studies should not be confined to basic courses taken largely during the freshman year, but should extend throughout an undergraduate's experience, enriching work in the upper division. The junior-level composition requirement, as well as Tier III, is a reflection of this conviction. Secondly, while there was wide agreement that work in the major was excellent for developing in students the powers of analysis—the ability to break things into smaller and smaller parts for detailed inspection and understanding—we realized that our curriculum offered few opportunities for students to develop a capacity for synthesis.

That capacity was defined as the ability to weave many complex strands into a fabric of definable issues, patterns, and topics. We wanted to nurture in our students the ability to understand that problems and issues are often only successfully approached from a variety of perspectives. To contribute to the preparation of men and women capable of handling complex intellectual and social issues, we needed to bring them together in courses specifically designed to confront broad topics from multiple perspectives.

400 New Scholarship on Women: The Question of Difference (4)

Prereq: sr, WS 100 and WS certificate student; course may not also count toward major requirement. Examines the question of sexual differences that plague and motivate contemporary feminist analyses. Explores new scholarship in diverse discipline that contributes to differences among women and between women and men.

401 Seminar in Political Communication (5)

Prereq: sr and permission; course may not also count toward major requirement. Investigates selected aspects of political communication.

401A Images of Blacks in the American Mind (4)

Prereq: sr, Tier II completion. Examines the nature, the sources, and the effects of ideas and attitudes about Americans of African descent that have pervaded American culture. Focuses upon images of blacks as bucks, coons, buffoons, improvident children, mammies, devoted Christians, etc., with a view of showing how widespread and deeply embedded these images have been in American culture and how they contributed to slavery and the subsequent exclusion of blacks from the mainstream of American life. Interdisciplinary in nature, the course uses the approaches and materials of a variety of fields of study—literature, art, film, history, the natural sciences, social sciences, popular culture.

401B American Experience Through Novels and Films (4)

Prereq: sr, 8 hrs humanities. Offers interdisciplinary perspective on aspects of American cultural experience and awareness of nation's fictional and cinematic contributions. Works of fiction (with occasional plays) and their film adaptations are studied for purpose of exploring issues, such as frontier, American dream, black/white relations, individualism versus collectivism, heroism, and feminism, pertinent to understanding of American experience.

401C Race and Ethnicity (4)

Prereq: sr, 8 hrs social sciences. Review of various theories of race. Critique of diverse definitions of ethnic groups. Due attention given to problem of ethnicity in international arena. Cross-national comparisons made of ethnic processes in developing countries, vis à vis ethnic processes in U.S., Western Europe, and Eastern Europe.

402B Introduction to Alternative Agriculture (4)

Prereq: sr and one PBIO course. Approaches agriculture through three disciplines: history, health, and environmental and plant biology, particularly as latter relates to growth of plants in soil. Historical dev. of current agricultural problems is examined, and practical, biologically based solutions are proposed. The relationship between soil infertility and the health and disease of animals and humans is also examined. Problems relating to Third World cultures are emphasized.

404A Reconstructing Roman Slavery (4)

Prereq: sr. Attempts to reconstruct slavery in Roman world from the materials that have survived, including descriptions of slavery and slaves by the slave owners, literature that features characters who are slaves, and archaeological remains that illustrate the conditions of slavery.

406A Peace Corps Volunteers and Third-World Development (4)

Prereq: sr or perm; Tier II completion. Focuses on traditional societies throughout the world and on the interaction between people in those societies and "outsiders" from richer communities. Included are presentations by returned U.S. Peace Corps volunteers. Traditional societies, the impact on those societies of rapid social and economic change, challenges of intercultural communication, problems of project administration, and the ecological and environmental results of interaction.

407A Darwin Among the Poets: England in 1859 (4)

Prereq: sr and one course in English, political science, biology, or history. 1859 saw publication in England of an unusually large number of major works in various fields. This course examines climate of ideas that produced these works, the works themselves, and ideas and issues that resulted from them. Deals with Victorian (and modern) issues that touch on literature, science, politics, history, sociology, and religion.

407B The Autobiographical Quest (4)

Prereq: sr and one 200-level ENG course or perm (not open to students who have had 414A). Study of selected autobiographies with particular emphasis on individual's quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, and social—as appropriate.

407C The Existential Vision: Philosophy, Literature, and Film (4)

Prereq: sr and one course in philosophy, literature, or film. Seeks to synthesize contemporary philosophy, literature, and film by studying themes introduced by existential philosophers but also treated by post-WW II writers and filmmakers.

407E American Indian Cultures Through Literature (4)

Prereq: sr, Tier II completion. Offers students opportunity to explore U.S. history from perspective of Native American scholars as well as traditional historians, anthropologists, and literary scholars.

407G Feminist Film: Aesthetics and Politics (4)

Prereq: sr, 12 hrs in English, Film, and/or Women's Studies. Draws on three areas of study: English, Film, and Women's Studies. This course examines issues such as visual politics of representation and feminist film language; it explores the strategies of resistance historically used by women artists to examine and question patriarchal and Eurocentric ideology.

407H Shakespeare and Psychology (4)

Prereq: sr, ENG 301, 303 or PSY 332. Examines Shakespeare's delineation of character psychodynamics and, at the same time, examines how psychological interpretation makes plain or illuminates Shakespeare's characters. Course is part of larger attempt to explore ways in which literary and psychological interpretation complement each other.

407L The Literacy Crisis: Origins and Effects (4)

Prereq: sr. Are the literacy skills acquired by students in schools in the United States adequate to the demands made by industry and society? Are the legislative and educational reforms designed to raise those levels likely to succeed or fail? This course will attempt to answer these questions. Only at OU—Eastern Campus, St. Clairsville.

407N Renaissance Texts and Sex (4)

Prereq: sr, 8 hrs upper div. ENG or HUM. Through the disciplines of law, literature, social history, and theater, examines female and male sexuality, particularly state versus individual control, as evidenced in Renaissance theater and drama and Renaissance courts and law. Studies and synthesizes 16th-, 17th-, and late 20th-century attitudes about sexuality. Includes study of family law issues, property law, and slander through the texts of London consistory (Bishop's) court cases, legal texts, theater treatises, two Shakespearean dramas, and film and stage versions of these dramas from the last three decades.

407P Sin and Sex in Western Legal History (4)

Prereq: sr, 8 hrs Tier II humanities. Using religious and philosophical texts from Plato to Thomas Aquinas, letters, legal documents, poetry, prose, rule books, art, and music, this course examines Western attitudes toward sex and sexuality and considers such questions as these: what do we mean by "masculine" and "feminine" and what do masculinity and femininity have to do with sin and sex? What are the connections between sin, sex, and politics?

407Q Kiss Me Deadly: Film Noir/Novels in the 40s and 50s (4)

Prereq: sr, 8 hrs Tier II humanities, Film 201 or 202. Explores the literary and cinematic world of "noir," a critical term that refers to certain "black" or darkly-lit films of the 1940s and 1950s and to American, "hard-boiled" detective fiction of the same period, so-called "roman noir."

408A Environmentalism in America (4)

Prereq: sr. Topical survey of schools of thought, themes, and specific issues in American conservation in past century. 19th-century transcendental thinkers are baseline for survey. Contemporary environmental issues and debates provide capstone for course.

408B Landscape and Culture (4)

Prereq: sr and two courses or hours in social science. Considers Anglo-American landscape as key to understanding Anglo-American culture and its myths (e.g., frontier) and stereotypes (e.g., individualism).

409A Geologic Resources (4)

Prereq: sr, 4 hrs GEOL. Considers the interplay

between extraction and use of mineral/energy resources and society. Plate tectonics and the rock cycle serve as examples of synthesis within the disciplines of the geological sciences. More interdisciplinary exercises in synthesis examine some of the geopolitical implications of resource distribution and how humans adapt their resource utilization as conditions change. Culminates with study of how the earth, oceans, and atmosphere interact as a system through which carbon moves and affects climate on multiple time scales. Effects of this system on society and vice versa are considered with regard to resource use.

409B Bahamas: An Island as an Environment (4)

Prereq: sr. Course takes place in Bahamas during winter intercession and examines environmental issues in tropical ecosystems. The Bahamian islands provide a model for understanding the processes impacting both long-term and immediate results in the interplay of rural and urban priorities and nature in a tropical environment.

410A Philosophies of History (5)

Prereq: sr and one course in HIST or PHIL. Study and discussion of different philosophies of history dating from ancient to modern period. Analysis of how thinkers have taken empirical data of history and shaped them into metaphysical form.

410B The Age of Michelangelo (4)

Prereq: sr. Michelangelo's life (1475–1564) spans two most significant movements in early modern European history: Renaissance and Reformation. All of his work, artistic and literary, reflects these movements. By studying his life and work, one is able to acquire richer and more lasting insight into and appreciation of Renaissance and Reformation. Deals with philosophy, theology, architecture, art history, literature, and history.

410C The Folklore of Espionage: The Spy in Novel, Film, and History (4)

Prereq: sr, 8 hrs Tier II social sciences or humanities. Presents the historical treatment of intelligence operations and espionage which have been depicted in literature and on film during the 20th century. Major themes include "The Spy as Hero"; "The Spy as Anti-Hero"; "Moles"; "Double Agents in Espionage"; "The Ambiguities of Cold War Espionage"; "Assassination"; "Espionage as Comedy"; and "Games Intelligence Services Play." Five novels and nine films that deal with these and other themes are examined.

410F Gender in the Renaissance (4)

Prereq: sr; Tier II completion; HIST 101, 122, or 123. Examines gender in the Renaissance, using history, anthropological perspectives, and gender analysis. Focuses on seven case studies, ranging from Joan of Arc to colonial Virginia and New England in the 17th century.

411A Linguistics and Semiotics: The Interpretation of Cultures as Texts (4)

Prereq: sr, LING 270 or perm. Descriptive and functional linguistic approaches are applied to analysis of cultural phenomena and interpretation of their meanings for present and past societies.

411C Language and Mind (4)

Prereq: sr or perm; one 300-level LING, PHIL, PSY, or ANTH. Evidence drawn from Noam Chomsky's theory of language will be brought to bear on the question of the place of the mind/brain in the natural world. Chomsky's claims touch on issues of central importance for linguistics, psychology, philosophy, and anthropology, and have had a decided impact on all of these fields over the past 30 years.

413B Science, Culture, and Human Values (4)

Prereq: sr and completion of Tier II in humanities and natural sciences. Examines nature of art and scientific inquiry by means of various 20th-century attempts at integration.

413D Irony in Literature and Society (4)

Prereq: sr or perm, one Tier II course in literature. Exploration of ironic elements in literature, media, and society, with special attention to differences between ironic structures created through language and those found in visual arts and in music.

414A The Autobiographical Quest (4)

Prereq: sr, 4 hrs PHIL; or perm; not open to those who have had 407B. Study of selected autobiographies with particular emphasis on individual's

quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, social—as appropriate.

414B Liability and Responsibility in the Law (5)

Prereq: sr, 8 hrs humanities or social sciences. Study of some of major problematic areas in ascription of legal liability and responsibility. Chief areas of concern are: (1) grounds on which courts determine who or what is causally responsible for what occurred; (2) extent to which finding of legal responsibility should take account of intentions, knowledge, recklessness, etc., of accused; and (3) whether only sane individuals should be held legally responsible.

414C Semiotics in Communication (5)

Prereq: sr. Semiotics is concerned with systems of signs, their interrelationships, and the images used to transmit such systems. This course introduces students to structures and processes of communication through the use of semiotics.

414F Stories and the Pursuit of Meaning (4)

Prereq: sr. To achieve a critical understanding of the human pursuit of meaning achieved through "cosmic" storytelling, this course examines a psychological foundation of storytelling, a philosophical taxonomy of stories, epistemological clues for assessing stories, the postmodernist disprivileging of all stories, and the Biblical, Buddhist, African, Marxian, and existentialist traditions as bearers of cosmic stories.

415A Entropy and Human Activity (4)

Prereq: sr. Examines the application of the concept of entropy to human society as a whole, through the critical reading and discussion of works by Jeremy Rifkin and Bernard Cohen. Energy is conserved, but most physical processes involve transformations of available energy into forms less readily available. Rifkin claims that civilized humanity should reorder its priorities to minimize increases of entropy, which characterize such transformations. Several topics in the physical sciences are presented in some detail to provide adequate technical background to evaluate Rifkin's theses.

415B Music, Instruments, and Physics (4)

Prereq: sr, hs algebra, and Tier II PHYS or MUS. Studies the physical principles of sound production in musical wind instruments. Examines historical instruments, their modern versions, and the modern wind instrument from both musical and physics perspectives. Simple instruments will be designed, built, and played in class, then examined for their suitability as popular musical instruments.

415C Physics and Extraterrestrial Life (4)

Prereq: sr. Focuses on the necessary physical conditions (such as how planets are formed), the chemical and biological requirements for Earth-like life, and the problems for life (such as large meteorites that bombarded the early solar system and also radiation hazards) once it gets started. A second aspect of the course is to examine and evaluate possible evidence of extraterrestrial life, from reports in the media and other sources. The social consequences of cult beliefs and how people can be fooled are discussed.

416D Human Values in a Technocratic Age (4)

Prereq: sr, Tier II completion. Examines relationship between scientific inquiry, technology, and values. What impact has ascendance of scientific ethos had on values? What is the relationship between scientific inquiry and technology? Should scientific inquiry and technological development be subject to ethical constraints? Traces historical impact of science and technology on Western culture.

417A Cognitive Processes in Writing (4)

Prereq: sr. Examines the mental processes involved in creating written communication. Considers the role of linguistic constraints, knowledge, and emotion in writing and how writing changes developmentally. The influence of writing on thought and knowledge change is considered.

419D Emotion, Power, and Gender (4)

Prereq: sr or perm; ANTH 101, SOC 101, or PSY 101. Examines the role played by emotion in our private as well as our public lives. A review of various theories regarding the nature of emotion will be presented, followed by discussions of the nature, acquisition, and maintenance of power as

well as the uses of power and the relationships between power and emotion. The last section of this course is concerned with the relationship between gender and power, gender and emotion, and how these two broad areas dovetail, providing an explanation of the role of emotion in our everyday public and private lives.

419F Images of the Homeless (4)

Prereq: sr. Explores images of the homeless in literature, music, film, and the social sciences, with an emphasis on depictions of the homeless in the 20th century United States. Social science, cultural studies, and literary/rhetorical analysis are used to explore the sociohistorical development and impact of various images of the homeless. Students will also do creative projects, such as writing fiction, poetry, songs, etc., in which they develop their own depictions of homelessness.

419G Images of the Rainforest: Myths, Competitive Realities, and Alternative Futures (4)

Prereq: sr. Examines how early explorers created images of the rainforest with unlimited resources, how artists and writers reinforced or challenged mythical views of rainforests, how images of rainforests are depicted in indigenous peoples' art, stories, music, and medicine, and how their images differ from westerners. Ecological perspective will also be examined, with an emphasis on the images of interactions and connections between rainfall, climate, soils, rivers, plants, and animals. Images of political and legal rights, local action, and global awareness are discussed, and links between communities and their impact on the rainforests' future are examined.

419K Culture and the Sky (4)

Prereq: sr, ANTH 101 or PSC 100 or permission. Investigates both historically and cross-culturally the astronomies of several societies, focusing on the relations among conceptual systems, cultural practices, and empirical realities. The roles of scientific reasoning, religious experience, and aesthetic expression will be explored in each case, while the underlying politics in the production of knowledge will be problematized throughout the course.

420B Evolution and the Challenge of Creationism (4)

Prereq: sr, one Tier II natural science course. Examines two ways of knowing—science and religion—as exemplified in controversy on evolution and creationism. Claims and evidence for evolution and special creation, issues and strategies of conflict, arenas of confrontation, and implications of outcomes for both science and theology are discussed.

420C Biology of Human Social Behavior (4)

Prereq: sr; BIOL 101, BIOS 103, or BIOS 172. Evolutionary perspectives on human social behavior are examined in light of data from the social sciences. Behaviors such as bonding and communication are seen to arise from both biological bases and social experience.

420D Biology Through Biography (4)

Prereq: sr. Explores the act of discovery using major biological breakthroughs as the central theme. Integrates the disciplines of science, history, and philosophy by employing a biographical consideration of selected individuals. Uses the individual as a focal point to attain a sense of scientific discovery and considers the impact of the period's beliefs and thoughts on the development of the individual and, in turn, the individual's impact on both the disciplines and society as a whole.

420E Disease and Discovery: The Impact of Biology on History (4)

Prereq: sr; BIOS 103, 170, or BIOL 101; 4 hrs HIST. Explores ways humans have developed and changed their environment and themselves after first studying how environment and disease have influenced their physical and cultural development—how humans compete, migrate, and change in an ever-changing environment and how humans have brought numerous species, including their own, perilously close to extinction.

420F Dynamic Systems: Change, Chaos, and Fractals (4)

Prereq: sr, MATH 263B. Introduction to the study of dynamic systems focusing on the major classes of dynamic systems, modeling of the systems, and application of these concepts to real-world situations. Provides answers to such questions as: Why

can we perfectly predict the activity of a pendulum yet cannot accurately predict the weather? Is the similarity of physiological homeostasis and household thermostats superficial or fundamental? What are fractional dimensions, and why do they describe the world better than the geometry you learned in high school?

430A The Cultural Revolution of Computers and Information (4)

Prereq: sr. Examines role of information systems in impacting self, work, and society with emphasis upon a wide range of positive and negative assessments of how computer systems impact us.

432A Seminar in Negotiation and Conflict Resolution (4)

Prereq: sr. Examines nature of conflict from systems point of view. Presents theories and techniques of negotiation as method of resolving or managing conflict. Examples of successful and unsuccessful negotiations studied. Examples drawn from many areas of conflict, including purchasing and selling, marriage dissolution, labor contracts, hostage negotiations, plea bargaining, and international peace and arms limitation talks. Differences and similarities at various levels of negotiation are noted. Concludes with mock negotiation.

432B Working in the U.S.A. (4)

Prereq: sr or perm. Provides students with an understanding of the social, cultural, economic, psychological, and political nature of work in the U.S.; an appreciation of individual reactions to work, as well as the resulting productivity in modern organizations; and a basis for understanding the employment relationships in modern organizations. Focuses on the institution as well as the impact of institutional policies on individual work behaviors and organizational productivity.

432C Metaphors and Organization: Mgt. from Multiple Perspectives (4)

Prereq: sr; ANTH 101, PSY 101, SOC 101, or POLS 230. Studies metaphors applied to the understanding of organizations and how a selected metaphor both informs and limits. Gareth Morgan's book, *Imagination*, guides discussions, examining various metaphors that are commonly employed and alternatives Morgan suggests. Discusses how these metaphors show up in elements of popular culture and applies them to real world cases in order to discover how understanding is shaped.

432D Global Business Cultures (4)

Prereq: sr, 4 hrs Tier II social sciences. Using case studies depicting cultural issues in eight different countries on four continents, this course examines the differences and cultures and how they may cause misunderstanding or conflict. It considers such questions as why have these differences developed? How do these differences jeopardize success? What can be done to neutralize these differences?

432E Social Functions of the Legal System (4)

Prereq: sr and 8 hrs Tier II social sciences. Examines the social functions of the legal system in the sense of an integrated process of social behavior and ideas. Focuses on underlying principles of the legal processes and various disciplines including the economic, historical, political, communication, and ethical forces that shape legal concepts and principles.

432F Transforming Leadership (4)

Prereq: sr and COMS 103 and MGT 200 or 202. Explores use of emotional intelligence in transforming leadership style through the integration of management and interpersonal communication. Developmental experiences provide assessments, challenge, praxis, and growth for transforming leadership with emotional intelligence.

435A Communication and Racism (4)

Prereq: sr and 18 hrs social sciences. Focuses on how racial prejudices are communicated and shared within different racial groups; analyzes how people of specific racial groups perceive and talk about members of other racial groups. Conflict theory and research is studied to gain insight into how interracial conflicts are expressed and managed.

435B Black Communication Styles (4)

Prereq: sr, COMS 103. Explores African American history through the eyes of notable black ora-

tors. Selected speeches from these orators will be analyzed in an attempt to understand the historical elements that comprise the unique African American style of communication.

435C Cultural Inquiry in Diversity in Familiar and Foreign Contexts (4)

Prereq: sr, COMS 101 or 103. Investigates the dynamics of intercultural and cross cultural communication, cultural diversity, and methods of qualitative research. Requires an on-site qualitative field research experience in a rural, international location.

437A Images of War in Film, Television, and Literature in the 20th Century (4)

Prereq: sr, one course in HIST or POLS. Uses a case-study approach to evaluate how our perceptions of war have been shaped by fictional and nonfictional treatments. Course materials include novels, short fiction, television news and documentaries, fiction films, and archival sources that focus on WWI, WWII, Vietnam, regional wars of the 1980s and 1990s, and the Gulf War.

437C Media, Culture, and Identity (4)

Prereq: sr and computer with Telnet/Internet access. Explores aspects of identity as formed and informed by culture and media in a computer-mediated virtual learning environment.

437D Communication Theory in Everyday Life (4)

Prereq: sr, 8 hrs Tier II social science. Examines the role of language and symbols in interpersonal and mass-mediated contexts in defining and maintaining identity. Students will understand how the different symbol systems people use throughout life affect how they interpret significant events in their lives.

438A Women in the Information Age (4)

Prereq: sr, 8 hrs social sciences or WS 100 or COMT 214. Investigates the effects of the "information age" on women's lives. Although information technologies have revolutionized the way we live and work, men and women have not been affected in the same manner. This course explores the reasons women have interacted much differently than men with the two primary emerging technologies—computers and telephones.

446C Disabilities as Portrayed in the Media (4)

Prereq: sr, Tier II social sciences. Examines the evolution of the media's portrayal of persons with disabilities. Specifically, by applying relevant interdisciplinary theories and perspectives, selected films and television programs will be analyzed to determine the extent and manner in which selected media have impacted on society's perceptions and attitudes.

447 Natural Resource Conservation (4)

Prereq: sr and GEOG 241; course may not also count toward major requirement. Examines themes in contemporary resource management, methods of resource assessment and evaluation, and selected case studies in sustainable management of renewable resources.

447A Authoring Children's Information Books in Your Major (4)

Prereq: sr, Jr. comp course. Offers an opportunity to integrate knowledge about creative writing, children's literature, and literacy education through the process of authoring two children's information books covering personally intriguing aspects and issues of each student's major disciplines. Students will achieve synthesis of these disciplines through the writing and publishing of information books, and sharing these books and expertise with local school children. Examines how children effectively learn to read and write, genre in children's literature, illustrating, and publishing techniques.

450B Technology and Culture (4)

Prereq: sr, Tier II completion. Intended to provide a synthesis experience for seniors on the topic of engineering and technology and their interactions with and effects on society. Students will have an opportunity to stand outside their particular major and to interact with other specialists to see what they can do to provide clarity of purpose and direction to the technological questions facing humankind.

450C Society and New Technology (4)

Prereq: sr, 8 hrs Tier II applied science and natural sciences. Examines past and present instances in which the course of adopting a technology has been affected by the influences of public and private institutions. Traces technology's path from the laboratory into functioning society and examines the obstacles new technology faces in becoming an integral part of mainstream society.

452A Appropriate Technology in Developing Countries (4)

Prereq: sr. Provides both technical and non-technical majors with an introduction to technology that best suits the economic, social, environmental, political and technological needs of developing countries. Uses case studies and a design project to examine the economic, anthropological, and technical aspects of problems in developing countries.

454A Connections: Inventions and Natural Resources (4)

Prereq: sr. Investigates the interrelationships between the manufacturing processes necessary to bring the concepts of invention to reality and the influence of limited natural resources on that endeavor.

460A Visual Culture Studies (4)

Prereq: sr. Various forms of visual culture including art, television, movies, advertising, fashion, domestic architecture, parks, carnivals, body piercing, etc. To discover new ways of understanding and appreciating visual culture, each form is analyzed through different theoretical approaches, including semiotics, feminism, post-structuralism, Marxism, multiculturalism, etc.

461A Social History Through the Arts (4)

Prereq: sr. An examination and comparison of social and political forces of two periods, the Elizabethan and the present, as expressed through the arts. Contemporary issues emphasized are changing gender roles, racism, the influence of African American arts (particularly music and dance) and ethics related to freedom of expression and support for the arts.

462B The Arts and People with Disabilities (4)

Prereq: sr, Tier II social sciences. Interdisciplinary examination of the role played by the arts in the lives of people with disabilities. Issues of value, function, accessibility as consumers and artists, performing with a disability, utilization of creative arts therapies, public attitudes, and advocacy are explored.

462C Music and Health (4)

Prereq: sr. An interdisciplinary examination of the impact of music from historical, behavioral, medical, psychological, and technological perspectives. Small group discussion and music experiences will be used to explore music in a healthy lifestyle, music in medicine, therapeutic applications of music, music technology, and advocacy for people who have health impairments.

463A Theatrical Space and Performance (4)

Prereq: sr, Tier II completion. Examines the historical and contemporary interaction of two art forms, theater and architecture, in the design and construction of theaters. Considers the requirements and demands of theater and architecture and analyzes their synthesis in creating actual theater structures.

463B Women Speaking: Then and Now (4)

Prereq: sr. Examines the voice and speech composition of famous women orators throughout history. A comprehensive program of voice and speech training is introduced and practiced to improve the quality of the speaking voice and to develop power and range for a more confident, effective, and expressive communication.

464A Cultural Traditions and the Arts (4)

Prereq: sr. (fall) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Greek, Roman, Medieval).

464B Cultural Traditions and the Arts (4)

Prereq: sr. (winter) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to

one another and against background of ideas that animated life of their times (Renaissance, Baroque).

464C Cultural Traditions and the Arts (4)

Prereq: sr. (spring) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (19th and 20th centuries).

464E Madness in Culture (4)

Prereq: sr, 8 hrs Tier II humanities. Synthesizes the understanding of madness in its different expressions, such as cruelty, sexuality, illusions, hallucinations, or intoxications, as documented by artists, philosophers, writers, drug users, and people known to engage in strange and bizarre behavior.

470A Social Crises in Health Care Policy (4)

Prereq: sr. Virtually every medical advance is accompanied by complex set of poorly understood ethical, legal, political, and economic considerations. Course provides students with opportunity to explore in depth all dimensions of crisis that have arisen involving practice of medicine or provision of health care.

470B Sport Aesthetics (4)

Prereq: sr or perm. An analysis of the aesthetic in sport by viewing various works of art when sport serves as the subject of the artist and by observing sport when sport is the medium for creating aesthetic expression.

470C Chemicals: Health and Environment (4)

Prereq: sr or perm. Topics presented will include atomic and molecular structure, states of matter, acids and bases, polymers, corrosion, health-related issues (radon, formaldehyde, pesticides, asbestos), and global issues (ozone, greenhouse effect). Topics discussed with regard to their personal and environmental impacts.

470D Alternative Health (4)

Prereq: sr, HLTH 202. Considers basic questions about health and healing from a wide variety of perspectives. Course content will focus on health practices considered alternative health care practices in the United States today. Assumptions underlying these alternative or complementary systems will be contrasted with traditional health care views.

470E Chemical Risks & Society Benefits (4)

Prereq: sr. Focuses on the chemical industry to teach students to conduct functional risk assessment (i.e., evaluation of the benefits of complex technological materials given limited information or resources pertaining to the costs of such uses). Examines the role various constituencies can play in controlling such technologies and the products they produce including the expenses to society for these controls.

472A Self, Aging, and Society (4)

Prereq: sr, one course in SOC, PSY, or HCCF. Interrelates knowledge of aging, modes of thought, and values to one another and to practical problems in life, society and culture, and world of work. Focuses primarily on biological, psychological, sociological, health care, and public policy aspects of gerontology. Designed to analyze in an interdisciplinary way basic assumptions of aging, process of theory construction, interrelationship of theory and research, procedures of empirical investigation, implications of older age structure for American society, and problems of aged in American society.

472C Women and Leadership: Roles and Responsibilities (4)

Prereq: sr or perm; PSY 101 or SOC 101. Analysis of women in leadership roles in relation to historical, sociological, psychological, and economic perspectives. Strategies for developing leadership skills integrated throughout the course.

472D Thanatology (4)

Prereq: sr or perm; PSY 101 or SOC 101. Synthesizes components inherent in current philosophical and religious views and beliefs, psychological and clinical dimensions, sociological factors, and ethical and moral issues of death in context of defining and coping with death.

472K Clothing and Culture (4)

Prereq: sr; PSY 101 or SOC 101; one course in IA or AH. Knowledge and understanding are

built through the interdisciplinary study of apparel, appearance, and cross-cultural influences in variations and functions of dress. Student exploration to focus on apparel and appearance norms as a cultural universal. Emphasis on research methods, resources, and activities relating to cultural/subcultural patterns.

472L Food and Culture of the Mediterranean (4)

Prereq: sr, one course in ANTH, GEOG or SOC. Investigates the food and culture of the Mediterranean region from a cultural and geographic perspective.

474A Brainscape: The Integrative Brain (4)
Prereq: sr or perm. Interdisciplinary course that guides students to explore functions of the human brain. Integrates information on such topics as movement, control, and awareness; sensorimotor integration; language development and use; feelings, emotions, and drives; left brain, right brain; neural rhythmicity; levels of consciousness; and states of mind. Using this integrative information base, students explore and discuss mechanisms and evidences of such human attributes as thought and intellect, learning and memory, play, reason, and decision making.

475A Women and Leisure (4)

Prereq: sr, one Tier II social science. Designed to assist students in developing an awareness of the changing roles of women in society, particularly within the leisure components of women's lives. The course uses a social-psychological perspective, and encourages students to think critically about key issues surrounding women and leisure within a broad social context. This course is taught from a feminist perspective, focusing on how social change is necessary to allow women the opportunities that they deserve related to leisure and recreational pursuits.

480D Emergence of a Science (4)

Prereq: sr, one course in science or philosophy. For both science and nonscience majors interested in historical and philosophical influences that led to present concept of chemistry as science. Chronological survey, largely nontechnical, of developments in chemistry from Thales to Russell. Not acceptable for 400-level requirement in B.S. chemistry degree program.

480E War: The Human Response (4)

Prereq: sr, 12 hrs psychology or English. Human response to war considered in terms of myths of heroism and masculinity, nature of conflict, use and justification of aggression, perception of enemy, effects on both victims and victimizers, and irony of war. Human response examined both from subjective perspective of creators of literature of war and from objective perspective of psychologists who study individual and group behavior in times of conflict.

480G Schooling and the State (4)

Prereq: sr, Tier II course in PHIL. Critical inquiry into how education, through citizenship preparation, has been seen by liberal, conservative, and socialist philosophers as resolving social crises. Particular attention to eras of extreme social crisis such as Great Depression and recent decades. Use of popular literature and source documents to relate educational prescriptions to current topics in education.

480K Meaning in Music (4)

Prereq: sr. Survey of recent and historical attempts to explain relationships between musical stimuli and their musical or extramusical referents. Representative musical works examined in light of these theories.

480M Gandhi and King: Nonviolence as Philosophy and Strategy (5)

Prereq: sr, one social science course. Provides a view of nonviolence as an end and personal style, although emphasis is placed on nonviolence as a means of responding to oppression. Offers a structural opportunity for students to integrate the theories and practice of nonviolence or other alternative paradigms, as related to real life situations, into their own life experiences. An interdisciplinary analysis of nonviolence will be employed.

480P Ethical Issues in the Human Services (4)

Prereq: sr; Tier II course in humanities or social sciences. Examines variety of ethical issues facing

human service workers (social workers, psychologists, counselors, etc.), including questions of truth-telling and confidentiality, paternalism and self-determination, distributive justice (allocation of resources), etc. Model for analyzing these issues is presented.

480R War: Historical and Dramatic Perspectives (4)

Prereq: sr, Tier II completion. Through vehicle of history and drama, examines way in which America has been affected by warfare in 20th century. Dramas studied from historical and theatrical perspectives for insights they offer about history of American society during wartime.

480T Science Policy in the U.S. (4)

Prereq: sr; POLS 101 or lab science course. Considers the intersection of science and politics. Investigates how government affects science, how scientists become involved in political decisions, and how scientific information is used in public policy making. Examines the values and methods of both science and politics, traces the historical development of science policy, and analyzes contemporary issues where science and politics meet.

480V Contemporary American Family (4)

Prereq: sr or perm. Study of American families based on psychological and literary analysis in professional literature and recent fiction and drama. Four questions designate the nature of the synthesis: (1) What is the relationship between the psychological study of the American family and its presentation in recent literature? (2) Do the portrayals of families in the literature reflect the family dynamics described by the psychologists? (3) What conclusions are best revealed by each approach? (4) What results from the synthesis of literary and psychological disciplines? Concerned with structures, functions, communication, roles, conflict, and intimacy in family settings, and also with the manner of their presentation in the literature.

486 Business World of Asia (4)

Prereq: sr; course may not also count toward major requirement. Examines the current business environment of Asia from the perspective of contemporary history, culture, religion, political economy, geography, and current events. Emphasis is given to the awareness of global information resources for active business involvement in Asia.

489Q Censorship and Performance (4)

Prereq: sr. Integrates the study of art, culture, politics, and performance in order to question the place of art in society and to see how artists interpret the world. Examines the role of governments in art funding, views of obscenity and decency, free speech and tolerance.

489R Birth and Childhood in American Society (4)

Prereq: sr. Examines the historical sociological and psychological views of children over time. Investigates the way that society views and has viewed children in the past in order to better evaluate our values and our society. Discussion of practical aspects of raising children in the new millennium.

Travel and Tourism (TAT)

The following courses for the A.A.S. in travel and tourism are available only on the Southern campus:

150 Travel Career Development Part I (3)

Introduction to comprehensive and critical information on travel products and destinations, important business issues, and the technical and personal skills needed to begin a career in the travel industry. Emphasis on the travel product and sales and marketing.

151 Travel Career Development Part II (3)

Continuation of 150 with emphasis on agency operations and travel industry careers.

160 Destination Training: North America (3)

Designed to acquaint students with in-depth information about the United States and Canada, including physical geography and political and cultural aspects of the region.

161 Destination Training: Ohio (3)

Designed to acquaint students with in-depth information about the state of Ohio, including physical geography and political and cultural aspects of the region. Also includes in-depth analysis of the group travel business.

162 Destination Training: Western Europe (3)

Designed to acquaint students with in-depth information about Western Europe, including physical geography and political and cultural aspects of the region.

163 Destination Training: Asia (3)

Designed to acquaint students with in-depth information about Asia, including physical geography and political and cultural aspects of the region.

164 Destination Training: Mexico, Caribbean (3)

Designed to acquaint students with in-depth information about Mexico and the Caribbean area, including physical geography and political and cultural aspects of the region.

250 Travel Rules and Regulations (4)

Introduction to the legal procedures, ethics, and relationships involving travel agencies and the airlines, tour operators, and travelers.

270 Travel Computer Program Training (3)

Introduction to computerized reservation system. Students will work with an actual airline computer program and will learn how to search for travel information, plan an itinerary, and write tickets.

280 Seminar: Travel Planning and Counseling (1)

Discussion and review of concepts relating to actual work experience in making travel arrangements and/or counseling travelers. Enrollment concurrent with 281.

281 Practicum: Travel Planning and Counseling (2)

Practical field experience in making travel arrangements and/or counseling travelers. Enrollment concurrent with 280.

282 Seminar: Tour Planning and Direction (1)

Discussion and review of concepts relating to actual work experience in planning and conducting a small group tour. Enrollment concurrent with 283.

283 Practicum: Tour Planning and Direction (2)

Practical field experience in planning and conducting a small group tour. Enrollment concurrent with 282.

290 Independent Study (1-4)

Prereq: written proposal and perm. Exploration of special topics in travel and tourism.

University College (UC)

105 College Information Seeking Skills (1)

Prereq: fr. or soph. Finding, using, and evaluating information sources for undergraduate research. Includes narrowing a topic for an academic audience, concepts of indexing, and Boolean database searching. Hands-on lab approach with final bibliography tied to work in another class.

106 Academic Computing Skills (1)

Prereq: fr. Helps students learn to easily use computers as a powerful tool to help them be more productive students. Teaches basic computer skills that are often needed for other Ohio University course assignments and includes multimedia skills, which makes this course different from other beginning computer skills courses. Ideal for the computer novice.

110 Learning Strategies (3)

Prereq: fr. Helps students assess current study behaviors and attitudes and then adopt techniques that increase effectiveness in managing time, taking notes, reading and comprehending text material, and preparing for exams. Emphasizes regular practice and application of strategies discussed. Especially recommended for new students who didn't study very much in high school and/or have no well-developed system of effective studying.

110A Time Management and Test Taking Skills (1)

Concentrates on managing time and preparing for and taking examinations. Duplicates components of UC 110.

110B Notetaking from Lectures and Textbooks (1)

Improves ability to select important information in lectures, discussions, and textbooks, organize it in note form and review it. Emphasizes regular practice and use of organized notetaking systems. Duplicates components of UC 110.

112 College Reading Skills (2)

Prereq: fr. Focuses on active reading and study reading techniques, such as summarizing main ideas, organizing textbook content, understanding inference and point of view, adjusting reading rate, expanding vocabulary, and developing critical thinking skills. Course content moves from shorter passages to longer selections and emphasizes practice and application of skills. Recommended for new students with <20 on the ACT Reading section.

112A Reading: Comprehending Textbooks (1)

Focuses on comprehension skills needed for reading college-level materials and a learning system to increase ability to read texts more efficiently. UC 112A and 112B combined duplicate UC 112.

112B Reading: Improving Speed and Vocabulary (1)

Increases reading speed and the ability to appropriately adjust rate to different types of reading materials and tasks. In addition, teaches effective techniques for developing a college-level vocabulary. Recommended for students with higher level reading skills (>20 on the ACT Reading section). UC 112A and 112B combined duplicate UC 112.

115 The University Experience (2)

Prereq: first-quarter student. Designed to help ease the transition to the academic environment. The emphasis is on making wise choices that improve one's chances to be successful in college. Offers an introduction to the resources at Ohio University, including the University library and Career Services. Touches on finding a major and developing academic goals.

116 The University Experience—Regional Campus (3)

Prereq: first-quarter regional campus student. Helps the nonresidential regional campus student adapt to demands of university as academic environment, assessing interests, values, and abilities; exploring academic majors and their requirements; establishing educational and career goals; and developing skills necessary for college success.

University Professor (UP)

Courses are offered each year by University Professors selected the preceding academic year. The courses cover topics chosen by the professors themselves, and may be offered only twice through the University Professor program. Often University Professor courses have joint first-year and upperclass sections. As the courses are special offerings, no permanent listing of descriptions and registration information is possible. For descriptions and registration information, visit University College at 140 Chubb Hall.

Generally, a University Professor course offered within the professor's area of training and expertise will count toward area requirements of different colleges, where applicable. Otherwise the credit fulfills elective credit hours. Be sure to check with your college office regarding application of University Professor course credit to college requirements.

150 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr fr-level UP course.

151 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr fr-level UP course.

152 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr fr-level UP course.

450 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr upperclass-level UP course.

451 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr upperclass-level UP course.

452 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr upperclass-level UP course.

Visual Communication (VICO)

The curriculum in visual communication includes the courses listed below plus a variety of courses offered through the E. W. Scripps School of Journalism. A grade of C (2.0) or better in prerequisite classes is required before enrolling

120 Introduction to Visual Communication (4) (fall only)

A survey of visual communication theory and technology of visual communication from ancient cave drawings to digital computer images.

140 Studies in Visual Communication (4)

This class will develop knowledge of visual communication to create a framework for measuring objective qualities of visuals, recognize and respond to ethical questions faced by visual communicators, understand the history of techniques and technologies, relate current trends to past practices, and demonstrate application of critical analysis to visual communication applications.

220 Topic Seminar (2-4)

Prereq: 120. Examines the foundations of visual communication through the ages. Looks at the works of various photographic communicators and discusses how visual communication can inform, stimulate emotions, and influence viewers.

221 Introduction to Visual Communication Skills (4)

Prereq: 120. An introduction to visual communication skills through the color photographic medium. Student work will be reviewed and critiqued as to composition, technique, and the ability to communicate the information of the original subject to the viewer. Students will be required to have a 35mm camera with manual exposure and focus capabilities.

222 Introduction to Visual Communication Tools (4)

Prereq: 221 and Photojournalism or Commercial Photography major. (cooperative buying fee) A foundation class in the basic photographic tools and techniques used for visual communication. The course will examine methods for effective communication using photography as a language. Students will be required to have a 35mm camera with manual exposure and focus capabilities.

311 Informational Graphics (5)

Prereq: 314 and JOUR 233. (cooperative buying fee) The visual presentation of quantitative and spatial information. Examines the planning, design, and computer preparation of charts, graphs, diagrams, and maps for use in newspapers and magazines.

314 Introduction to Publication Design (5)

Prereq: VisCom major and 120. (cooperative buying fee) An introduction to the production, design, and techniques of desktop publishing. Explores the many software packages for desktop publishing for microcomputers with emphasis on the presentation of visual material on the page.

320 Topic Seminar (2-4)

Prereq: 221. A flexible format for examining current and future topics in visual communication. Because of constantly changing trends in the profession, topics will vary as an area of need not covered in an existing class is identified. Topics will include the areas of rapid change such as technology, techniques, ethics, and aesthetics.

321 Introduction to Photographic Illustration (4)

Prereq: 222. (cooperative buying fee) Introduction of the basic tools of photographic illustration including approaches to fashion, still life, and lighting and basic tools of the medium format.

323 Publication Layout and Design (4)

Prereq: 314 and 335 or JOUR 235 and 371. (cooperative buying fee) Examines historic and contemporary theories of layout and make-up design. Using computer systems that simulate pagination programs, students will investigate methods of combining type, graphics, and photographs on the printed page.

324 Portraiture (4)

Prereq: 390 or 321. This course provides students with an overview of the techniques used in photographic portraiture. Portraiture skills are essential to both photojournalists and commercial photographers. This class offers skills in natural and artificial lighting, working effectively with the subject/model, and the development of portraiture concepts. Students will be required to seek out portraiture subjects and produce photographs on location and in the studio.

327 Photo Illustration: Fashion (4)

Prereq: 321. (cooperative buying fee) The exploration and interpretation of the interaction of gesture, movement, and light in relation to capturing the essence of people and garments.

328 Photo Illustration: Still Life (4)

Prereq: 321, 371, and JOUR 133. (cooperative buying fee) An exploration of the principles of light and its effect on surfaces and shapes in studio lighting

335 Picture Editing (3)

Prereq: 314 and JOUR 231. This class helps students understand and practice the skills necessary to function as picture editors and visual leaders in a journalistic environment. While some design skills are expected, the emphasis is on journalistic-based logic, articulation, and visual leadership in content origination.

336 Advanced Picture Editing (3)

Prereq: 335 or JOUR 235. This class is designed to facilitate a deeper understanding of the theory and reality of the photo editor in a journalistic environment, to practice the skills essential for the task, and exposure to the thought processes that thread through routine visual management decisions.

361 Introduction to Web Design (4)

Prereq: 314 and 371. (cooperative buying fee). Introduction to Web design will provide an overview of Internet design and user-interface and provide students with the analytical and technical skills, aesthetic and creativity needed to design for the World Wide Web.

371 Digital Imaging (4)

Prereq: 314. (cooperative buying fee) Advanced class introducing the computer as a tool for digital alteration of images to create composite and altered photographic images. Uses Macintosh computers and production quality scanners to alter and manipulate photographic images for creative and illustrative presentation.

390 Introduction to Photojournalism (4)

Prereq: 222. (cooperative buying fee) Introduction to the photographic techniques, tools, and content issues in visual communication for publications.

391 Intermediate Photojournalism I (4)

Prereq: 390. (cooperative buying fee) This class will examine single image photography as it is used in journalism and publications. The emphasis will be on using the photographic medium to communicate ideas, information, and emotions.

392 Intermediate Photojournalism II (4)

Prereq: 391 and JOUR 231. (cooperative buying fee) An examination of multiple sequential imaging as used in the photographic narrative form—picture story.

393 Intermediate Photojournalism III (4)

Prereq: 391. (cooperative buying fee) The use of color materials in reportage. The class will examine the various problems and explore solutions to using color materials in uncontrolled natural environments. Color balance, lighting, low light situations, reproduction, films, and processing will also be topics.

394 Small Systems Lighting (2)

Prereq: 390 or 321. This course will explore the history, aesthetics, and techniques of using artificial strobe light as it applies to the still photographic image. Students will learn to

operate small lighting systems by using strobes and flashes to practice with the latest equipment and experiment with lighting styles.

412 Advanced Informational Graphics (5)
Prereq: 311. (cooperative buying fee) Visual presentation of spatial information with emphasis on design and production techniques as they pertain to newspapers and magazines.

421 Documentary/Essay (5)
Prereq: 392. (cooperative buying fee) The use of still photography as a tool for social, anthropological, and journalistic investigation of contemporary issues. Using methods defined by traditional field researchers, the class will expand the use of the photograph for collection and interpretation of selected subjects.

426 Advanced Publication Layout and Design (4)
Prereq: 323. (cooperative buying fee) Advanced study in the use of computers as a tool for layout, design, and pagination for print media.

427 Advanced Photographic Illustration: Business Practices (5)
Prereq: 327 or 328. (cooperative buying fee) An investigation of the principles of studio management. Areas of study will include copyright, computer usage, self promotion, and financial management.

428 Advanced Photographic Illustration: Studio Practices (5)
Prereq: 427. (cooperative buying fee) Advanced studio methods in the design and execution of illustration images. Particular emphasis will be placed on the professional performance in producing images using advanced equipment and techniques.

429 Advanced Photographic Illustration: Applications (5)
Prereq: 428. (cooperative buying fee) A synthesis of business and photographic skills. Students will be given simulations based on a complete project concept that reflects the realities of working professionally.

462 Advanced Web Design (4)
Prereq: 311 and 361. (cooperative buying fee) This class will provide students with advanced skills which include the utilization of the human interface, design, Web delivery, information architecture, creation/production of multimedia-based visuals for Internet delivery.

470 Graphics Systems Management (4)
Prereq: 371. (cooperative buying fee) Planning, configuration and maintenance of computer and communication systems used in the graphic arts industry. Course will survey electronic production methods and examine technical and practical issues of graphics computers, peripherals, applications, and system hardware.

473 Interactive Media (4)
Prereq: 462 and TCOM 200C. (cooperative buying fee) Introduction to planning, media integration, and production techniques and tools of interactive multimedia. Through practical exercises this course will expose students to major component media, including computer text, graphics, photography, animation, speech, sound, and video. Technical and human interface issues are also covered.

480 Digital Portfolio (0)
Prereq: 371. (cooperative buying fee) Portfolio production for VisCom majors. This class provides supervised access to the VisCom computer labs for the purpose of preparing portfolios for internships and job applications. Special fee required.

481 Professional Development (4)
Prereq: 371. (cooperative buying fee) Preparation for entry into the profession. Course will detail finishing and preparation of portfolio material, presentation skills, and knowledge of entry level professional employment possibilities.

486 Advanced Photographic Reportage I (4)
Prereq: 392. (cooperative buying fee) Advanced visual production work in newspaper photographic reportage, with particular emphasis on the picture story or photographic essay. This documentary photojournalism class will use a wide range of color and/or black and white material. Finished projects will incorporate the use of computers and scanned images for final portfolio production.

487 Advanced Photographic Reportage II (4)

Prereq: 486. (cooperative buying fee) Advanced visual production work in magazine design, with particular emphasis on the picture story or photographic essay. This class will use a wide range of skills to produce a prototype magazine publication within a 10-week quarter. The class demands audience research, visual content focus, field research, photography, writing, design, and production. The class involves the use of computers and film scanners for production.

488 Advanced Interactive Media (4)
Prereq: 473. (cooperative buying fee) Advanced visual photographic production using a time-based media (slide shows or CD-ROM), with particular emphasis on the picture story or photographic essay. This documentary photojournalism class will use a wide range of photographic materials. Finished projects will incorporate the use of computers and scanned images into time-based visual presentations.

491 Individual Study (1-5)
Prereq: perm and written proposal. Max 12 hrs. Individual course of study agreed upon with the permission and guidance of a faculty member.

492H Honors Project (1-6)
Prereq: jr or sr; perm. Departmental honors project resulting in a creative piece of original work, the result of supervised research or a collection of artistic endeavors.

Virology

See Biological Sciences: Microbiology.

Women's Studies (WS)

100 Introduction to Women's Studies (4) (2H)

An interdisciplinary fundamentals course in which students explore a range of perspectives regarding social, political, and cultural constructions of gender, race, and sexuality.

200 Issues in Feminism (4)
Critical analysis of 3-4 contemporary issues pertaining to women and gender, such as: work, health and reproduction, politics, education, violence, women in the arts, women in athletics, women in science, gender and aging.

210 Women, Gender and Rock and Roll (4)
An analysis to which rock and roll has challenged the boundaries of women and gender by exploring the relationship between feminism and rock. Topics may include blues, jazz, groups, folk, soul, punk, rap, MTV, and riot grrrl.

320 Sexual Revolutions (4)
Prereq: 100 or 200. Course examines various sexual revolutions, past and present, through differing disciplinary lenses.

350 Feminist Theory (4)
Prereq: 100 or 200; no credit if 250. This is an introduction to feminist theory. Course examines feminist theoretical concepts in Europe and the U.S. from their inception in early 20th century through the present. Includes discussions of women and the vote, sexuality, identity politics, and girl culture. Texts are theoretical, historical, and literary. Film and video clips may be used to enhance course lectures.

360 The Women and Work Internship (4)
Prereq: 100. Includes a two hour seminar and a six hour work experience. The seminar will focus on applying and evaluating ideas learning in Women's Studies courses to the "real world" experience of women's organization and feminist practice. The seminar and supervised job placement are designed to help students make a successful transition into the competitive work world by testing personal strengths, clarifying preferences, and sharing reflections on work experiences with the instructor and other students.

410 Global Feminism (4)
Prereq: 100 or 200. The course considers women's issues and feminist movements from a global and non-Western perspective. Includes discussion of the globalization of feminism; the relationship

between feminism and colonialism; the connection of women's movements; and specific issues such as work/labor, sexuality, reproduction, and religion.

411 Women and Globalization (4)
Prereq: 100 or 200. Explores how globalization has affected the social status of women, their economic resources, their rights, and their opportunities. Focus is on the economic effects of the spread of free market capitalism.

450 Advanced Feminist Theory (4)
Prereq: 350. An exploration of post-1980's feminist theory. Begins with key Continental thinkers and moves to American theorists. Course looks at important ways in which social construction has shifted the discussion of race, ethnicity, and post-coloniality away from identity and other concerns of the early Second Wave.

460 Gender, Sexuality, and Culture (4)
Prereq: 350. Course draws upon theoretical, historical, and aesthetic texts in order to discuss the relationship between gender, sexuality, and diverse forms of cultural representation.

461 Queer Theory (4)
Prereq: 356. This course examines the intellectual and activist roots of queer theory, some of its most consequential statements, and current issues and debates within this body of literature.

480 Capstone in Women's Studies (4)
Prereq: 12 hrs of WS including 350; no credit if 400. This course guides students in identifying and researching a topic and producing a scholarly paper of 20 or more pages. Ideally the topic will build on previous work and thus involve significant revision in order to further refine the scope of research. The development of research skills will be emphasized.

481 Writing Gender (4)
Prereq: 12 hrs in WS. A creative writing workshop concerning the intersection of writing and politics. Exploration of intersections of gender, race, class, and sexuality. Fiction and non-fiction.

490 Independent Reading (1-4)
Prereq: perm. Directed individual reading or research.

493 Special Topics (4)
Prereq: 100; jr. Focuses on specific topics of interest in the field of Women's Studies.

World Religions

See CLWR, after Classics in English.

Zoology

See Biological Sciences.

Departmental Faculty

The following listings were submitted by the dean's office in each college in May 2006 and collated in the provost's office. The regional campus faculties are listed after the Athens campus faculty.

While care is taken to render the data in this list accurately, we regret that mistakes sometimes occur, given the volume of information contained within. Please notify the dean's office in your college if you find an error in your listing, so that the information submitted can be updated for the next edition of the catalog.

College of Arts and Sciences

African-American Studies

Prof: Vibert C. Cambridge (chair), Ph.D., Ohio U.; Francine C. Childs (emeritus, part-time), Ed D., East Texas State U.

Assoc. Prof: Patricia Gunn, J.D., Boston College

Asst. Prof: C. Michael Gray, J.D., U. of Wisconsin, Madison; Robin Jenkins, Ph.D., Carnegie Mellon; Karen Kornweibel, Ph.D., U. of Texas at Austin. Joan Weston, Ph.D., U. of California, Santa Barbara.

Inst: D. Akil Houston, M.F.A., Ohio U.

Biological Sciences

Prof: Mary Chamberlin, Ph.D., U. of British Columbia; Robert Colvin, Ph.D., Rutgers U.; Ralph DiCaprio, (Chair) Ph.D., U. of Alberta; Scott Hooper, Ph.D., Brandeis U.; Anne Loucks, Ph.D., U. of California, Santa Barbara; Donald Miles, Ph.D., U. of Pennsylvania; Ellengene Peterson, Ph.D., U. of California, Riverside; Robert Rakowski, Ph.D., U. of Rochester School of Medicine and Dentistry; Stephen Reilly, Ph.D., Southern Illinois U.; Jerome Rovner (emeritus, part-time), Ph.D., U. of Maryland; Michael Rowe, Ph.D., U. of California, Riverside; Gerald Svendsen, Ph.D., U. of Kansas; John Zook, Ph.D., Duke U.

Assoc. Prof: Elizabeth Crockett (part-time), Ph.D., U. of Maine; William Holmes, Ph.D., U. of California, Los Angeles; Donald Holzschu, Ph.D., U. of California, Davis; Kelly Johnson, Ph.D., Michigan State U.; Scott Moody, Ph.D., U. of Michigan; Molly Morris, Ph.D., Indiana U.; Willem Roosenburg, Ph.D., U. of Pennsylvania; Soichi Tanda, D.Sc., Hokkaido U.; Matthew White, Ph.D., Virginia Tech.

Asst. Prof: Helaine Burstein, Ph.D., North Carolina State U.; Robert Carr, Ph.D., U. of Michigan; Shawn Chen, Ph.D., Virginia Commonwealth University School of Pharmacy; Kim Cuddington, Ph.D., University of Guelph; Joan Cunningham, Ph.D., Ohio U.; Warren Currie, Ph.D., University of Guelph; Laura DiCaprio, Ph.D., U. of Alberta; Janet S. Duerr, Ph.D., Princeton University; R. Patrick Hassett (part-time), Ph.D., U. of Washington; Lorie LaPierre, Ph.D., Cornell U.; Daewoo Lee, Ph.D., U. of California, Riverside; Tomohiko Sugiyama, Ph.D., Osaka University; M. Suzanne Simon Westendorf, Ph.D., Ohio U.

Inst: Steven Edinger, M.A., Northern Michigan U.; Karen Mammone, M.S., Frostburg State U.; Molly Gurien, M.S., Rutgers U.; Ohio U.; Christopher Schwirian, M.S., Ohio U..

Lect: Mary Nossek, M.S., Ohio U.

Chemistry and Biochemistry

Prof: Kenneth L. Brown, Ph.D., U. of Pennsylvania; Howard D. Dewald, Ph.D., New Mexico State U.; Peter de Boves Harrington, Ph.D., U. of North Carolina; David Hendrick (emeritus, part-time), Ph.D., Iowa State U.; Tadeusz Malinski (chair), Ph.D., U. of Poznan; Hugh H. Richardson, Ph.D., Oklahoma State U.; Paul Sullivan (emeritus, part-time), Ph.D., U. of Waterloo.

Assoc. Prof: Stephen C. Bergmeier, Ph.D., U. of Michigan; Jared Butcher, Jr., Ph.D., U. of Tennessee; Karen E. Eichstadt, Ph.D., U. of Kansas;

Jennifer V. Hines, Ph.D., U. of Michigan; Marcia J. Kieliszewski, Ph.D., Michigan State U.; Mark C. McMills, Ph.D., Michigan State U.; Gary Pfeiffer (emeritus, part-time), Ph.D., Carnegie Mellon U.; Martin T. Tuck, Ph.D., U. of Tennessee; P. Greg Van Patten, Ph.D., U. of South Carolina; Shiyong Wu, Ph.D., U. of Nebraska.

Asst. Prof: Vladimir Alexeev, Ph.D., Petersburg Nuclear Physics Institute and Institute of Chemistry of Macromolecular Compounds; Lwei Chen, Ph.D., Harvard U.; Susan C. Evans, Ph.D., U. of Texas Graduate School of Biomedical Sciences; Klaus Himmeldirk, Ph.D., U. of Paderborn; Glen P. Jackson, Ph.D., West Virginia U.; Michael P. Jensen, Ph.D., Northwestern U.; Lauren E.H. McMills, Ph.D., Michigan State U.; Jeffrey J. Rack, Ph.D., Colorado State U.

Classics and World Religions

Prof. and Charles J. Ping Professor of Humanities: Thomas H. Carpenter, D. Phil., Oxford U.

Prof Emeritus: Gene Blocker (part-time), Ph.D., U. of California, Berkeley; George Weckman, Ph.D., U. of Chicago.

Assoc. Prof: James A. Andrews, Ph.D., U. of California, Berkeley; Elizabeth Collins, Ph.D., U. of California, Berkeley; Robert Stephen (Steve) Hays, Ph.D., U. of Texas, Austin; Lynne C. Lancaster, D. Phil., Oxford U.; William M. Owens (chair), Ph.D., Yale U.; Ruth Palmer, Ph.D., U. of Cincinnati.

Asst. Prof: Neil Bernstein, Ph.D., Duke U.; Lisa Carson, Ph.D., U. of North Carolina at Chapel Hill; Loren D. Lybarger, Ph.D., U. of Chicago; Alex Keefe, M.A., Harvard U.; Jaclyn L. Maxwell, Ph.D., Princeton U.

Economics

Dist. Prof: Richard Vedder, Ph.D., U. of Illinois.

Prof: Douglas Adie, Ph.D., U. of Chicago; Roy Boyd, Ph.D. (chair), Duke U.; Tony Caporale, Ph.D., George Mason U.; Khosrow Doroodian, Ph.D., U. of Oregon; Chulho Jung, Ph.D., U. of Michigan; Rosemary Rossiter, Ph.D., U. of Wisconsin, Milwaukee.

Assoc. Prof: Barbara Caporale, Ph.D., George Mason U.; Jan Palmer, Ph.D., Michigan State U.; Harold Winter, Ph.D., U. of Rochester; Julie Paxton, Ph.D., Ohio State U.; William Shambora, Ph.D., U. of Kentucky.

Asst. Prof: Ariaster Chimeli, Ph.D., U. of Illinois; Kyongwook Choi, Ph.D., U. of Washington; Shamila Jayasuriya, Ph.D., Georgetown U.; Charlene Kalenkoski, Ph.D., The George Washington U.; Donald Lacombe, Ph.D., Florida State U.; Vahe Lskavanyan, Ph.D., Washington U.; Bolong Cao, Ph.D., University of California, San Diego

English

Dist. Prof: Robert DeMott, Ph.D., Kent State U.; John Matthews (part-time), M.A., Ohio State U.

Trustee Prof: Samuel Crowl (part-time) Ph.D., Indiana U.

Stocker Professorship in Creative Writing: Darrell Spencer, Ph.D., U. of Utah.

Prof: Linda Hunt Beckman (part-time), Ph.D., U. of California, Berkeley; Joan Connor, M.F.A., Vermont

College, Marsha Dutton; Ph.D., U. of Michigan; Jacqueline N. Glasgow, Ph.D., Kent State U.; Sherrie Gradin, Ph.D., U. of New Hampshire; Mark Halliday, Ph.D., Brandeis U.; Dean McWilliams (part-time), Ph.D., U. of Oregon; Zanemvula Kizito Gatyeni Mda, Ph.D., U. of Capetown; Robert Miklitsch, Ph.D., SUNY, Buffalo; Barry Roth, Ph.D., Stanford U.; Duane Schneider (emeritus, part-time), Ph.D., U. of Colorado; Linda Zionkowski, Ph.D., Northwestern U.

Assoc. Prof: Marilyn Atlas, Ph.D., Michigan State U.; David Bergdahl (emeritus, part-time), Ph.D., Syracuse U.; Josephine Bloomfield, Ph.D., U. of California, Davis; Andrew Escobedo, Ph.D., U. of California, Berkeley; Loreen Giese, Ph.D., Emory U.; George Hartley, Ph.D., U. of New Mexico; Janis Holm, Ph.D., U. of Michigan; Mara Holt, Ph.D., U. of Texas; Katarzyna Marciniak, Ph.D., U. of Oregon; Joseph McLaughlin, Ph.D., Duke U.; Jennie Nelson, Ph.D., Carnegie Mellon U.; Betty Pytlík (emeritus, part-time), Ph.D., U. of Southern California; Mark Rollins, Ph.D., U. of Massachusetts; Albert Rouzie, Ph.D., U. of Texas; Thomas Scanlan, Ph.D., Duke U.; Jeremy Webster, Ph.D., U. of Tennessee.

Asst. Prof: Michael Brown (part-time), Ph.D., Ohio U.; Christine Freeman (part-time), Ph.D., Kent State U.; Ayesha Hardison, Ph.D., U. of Michigan; Miriam Hart (part-time), Ph.D., Ohio U.; Paul Christian Jones, Ph.D., U. of Tennessee at Knoxville; Elizabeth Miller, Ph.D., U. of Wisconsin, Madison; Charles Naccarato (part-time), Ph.D., Ohio U.; Ghirmai Negash, Ph.D., Leiden U.; Sung Ohm, Ph.D., U. of Arizona; Beth Quidslund, Ph.D., U. of California, Berkeley; Nicole Reynolds, Ph.D., U. of Georgia; Linda J. Rice, Ph.D., Kent State U.; Jill Rosser (part-time), Ph.D., U. of Pennsylvania; Carey Jean Snyder, Ph.D., State U. of New York, Stony Brook; Catherine Taylor, Ph.D., Duke U.; Lowell Ver Heul (part-time), Ph.D., Ohio U.; Sharmila Voorakkara, MFA, University of Virginia; Johnnie A. Wilcox, Ph.D., U. of Virginia; Valerie Worthy (part-time), Ph.D., Ohio U.

Inst: David Bruce (part-time), M.A., Ohio U.; Jane Denbow (part-time), M.A., Marshall U.; Robert Kinsley (part-time), M.A., Ohio U.; Thomas Mantey (part-time), M.A., Ohio U.; David Sharpe (part-time), M.A., Brown U.

Environmental and Plant Biology

Dist. Prof: Gar W. Rothwell (chair), Ph.D., U. of Alberta

Prof: Philip D. Cantino (associate chair), Ph.D., Harvard U.; Brian C. McCarthy, Ph.D., Rutgers U.; John P. Mitchell (emeritus, part-time), Ph.D., Edinburgh U.; Allan M. Showalter, Ph.D., Rutgers U.; Ivan K. Smith (part-time), Ph.D., U. of London.

Assoc. Prof: Harvey E. Ballard, Jr., Ph.D., U. of Wisconsin; Gene K. Mapes (adjunct), Ph.D., U. of Iowa; Arthur T. Trese, Ph.D., U. of Missouri; Morgan L. Vis, Ph.D., Memorial U. of Newfoundland; Sarah E. Wyatt, Ph.D., Purdue U.

Asst. Prof: Kim J. Brown, Ph.D., U. of Washington; Jared L. DeForest, Ph.D., U. of Michigan; Ahmed Faik, Ph.D., U. Joseph Fourier; Stefan E. Gleissberg, Ph.D., U. of Heidelberg; Todd F. Hutchinson (adjunct), Ph.D., Ohio State U.; Glenn R. Matlack, Ph.D., U. of Wales; Joanne Rebbeck (adjunct), Ph.D., North Carolina State U.; Mary Louise Trivett (adjunct), Ph.D., Ohio U.

Geography

Prof: Nancy R. Bain, Ph.D., U. of Minnesota; James K. Lein, Ph.D., Kent State U.; Frank E. Bernard (emeritus, part-time), Ph.D., U. of Wisconsin-Madison; Dorothy Sack, Ph.D., U. of Utah; Bob J. Walter (emeritus, part-time), Ph.D., U. of Wisconsin-Madison; Lynden S. Williams (emeritus, part-time), Ph.D., U. of Kansas.

Assoc. Prof: Timothy G. Anderson, Ph.D. (chair), Texas A&M U.; Hubertus H.L. Bloemer (emeritus, part-time), Ph.D., The Union Institute; Geoffrey L. Buckley, Ph.D., U. of Maryland; James M. Dyer, Ph.D., U. of Georgia; Brad D. Jokisch, Ph.D., Clark U.; Yeong-Hyun Kim, Ph.D., Syracuse U.

Asst. Prof: Gary S. Belcher (part-time), Ph.D. Ohio U.; Mary L. Dyer (part-time), Ph.D., U. of Georgia; Ronald H. Isaac (emeritus, part-time), Ph.D., Southern Illinois U.; Margaret W. Pearce, Ph.D., Clark U.; Harold A. Perkins, Ph.D., U. of Wisconsin-Milwaukee; Robert J. Shostak (part-time), J.D., U. of Pittsburgh; Thomas A. Smucker, Ph.D., Michigan State U.; Jeffrey S. Ueland, Ph.D., Florida State U.; E. Edna Wangui, Ph.D., Michigan State U.; Risa Whitson, Ph.D., Pennsylvania State U.

Instr: Matthew T. Trainer (part-time), M.A., Ohio U.; Christopher Towe (part-time), M.A. Ohio U.

Geological Sciences

Prof: Royal Mapes, Ph.D., U. of Iowa (emeritus, part-time); Damian Nance, Ph.D., U. of Cambridge, England; Thomas Worsley, Ph.D., U. of Illinois (part-time).

Assoc. Prof: Douglas Green, Ph.D., U. of Wisconsin; Gene Heien (emeritus, part-time) M.A., Indiana U.; David Kidder (chair), Ph.D., U. of California; Elizabeth Gierlowski-Kordesch, Ph.D., Case Western Reserve U.; Dina Lopez, Ph.D., Louisiana State U.; Greg Nadon, Ph.D., U. of Toronto; Mary Stoertz, Ph.D., U. of Wisconsin.

Asst. Prof: Alycia Stigall, Ph.D., U. of Kansas; Julie Libarkin, Ph.D., U. of Arizona; Keith Milam, Ph.D., U. of Tennessee; David Schneider, Ph.D., Lehigh U.; Gregory Scott Springer, Ph.D., Colorado State U.

History

Ohio Eminent Research Scholar: Alfred Eckes, Ph.D., U. of Texas.

Dist. Prof: Alonzo Hamby (part-time), Ph.D., U. of Missouri.

Connor-Study Chair of Contemporary History: Kevin Mattson, Ph.D., U. of Rochester;

Prof: Marvin Fletcher, Ph.D., U. of Wisconsin; Ph.D., U. of Wisconsin; Norman J.W. Goda (chair), Ph.D., U. of North Carolina; Steven Miner, Ph.D., Indiana U.; Compton Reeves (part-time), Ph.D., Emory U.

Assoc. Prof: Patrick Barr-Melej, Ph.D., U. of California at Berkeley; Douglas Baxter (part-time), Ph.D., U. of Minnesota; Phillip Bebb (part-time), Ph.D., Ohio State U.; P. John Brobst, Ph.D., U. of Texas; William Frederick, Ph.D., U. of Hawaii; Michael Grow (part-time), Ph.D., George Washington U.; Ph.D., U. of Missouri; Katherine Jellison, Ph.D., U. of Iowa; Chester Pach, Ph.D., Northwestern U.; Sholeh Quinn, Ph.D., U. of Chicago.

Asst. Prof: Benita Blessing, Ph.D., U. of Wisconsin; Michele Clouse, Ph.D. U. of California; Davis; Nicholas Creary, Ph.D., Michigan State U.; T. David Curp, Ph.D., U. of Washington; Mariana Dantas, Ph.D., Johns Hopkins U.; Robert G. Ingram, Ph.D., U. of Virginia; Jaclyn Maxwell, Ph.D., Princeton U.; Paul Milazzo, Ph.D., U. of Virginia; Brian Schoen, Ph.D., U. of Virginia; Kevin Uhalde, Ph.D., Princeton U.

Linguistics

Prof: Zinny Bond (emeritus, part-time), Ph.D., Ohio State U.

Assoc. Prof: James Coody (emeritus, part-time), Ph.D., Indiana U.; Beverly Flanagan (emeritus), Ph.D., Indiana U.; Scott Jarvis (chair), Ph.D. Indiana U.; Richard McGinn (emeritus, part-time) Ph.D., U. of Hawaii; Hiroyuki Oshita, Ph.D., U. of Southern California; Marmo Soemarmo, Ph.D., U.

of California, Los Angeles; Liang Tao, Ph.D., U. of Colorado; Christopher Thompson, Ph.D., U. of Illinois.

Asst. Prof: David Bell, Ph.D., Boston U.; Indiana U.; Colorado; Peter Githinji, Ph.D. Michigan University.

Instr: Ayako Deguchi, M.A., Ohio U.; Joung Hee Krzic, M.A., Ohio U.; Suharni Soemarmo, M.A., U. of California, Los Angeles.

Mathematics

Dist. Prof: Surender Jain, Ph.D., U. of Delhi; Alexander V. Arhangel'skii, Dr.Sc., Moscow State U.

Prof: Abdol-Reza Aftabizadeh, Ph.D., U. of Texas, Arlington; Sergiu Aizicovici, Ph.D., U. of Iasi; Jeffery Connor (Chair), Ph.D., Kent State U.; Archil Gulisashvili, Dr.Sc., Tbilisi State U.; Winfried Just, Ph.D., U. of Warsaw; Sergio López-Permouth, Ph.D., North Carolina State U.; Nicolai Pavel, Ph.D., U. of Iasi; Larry Snyder (emeritus, part-time), Ph.D., Purdue U.; Vladimir Uspenskiy, Ph.D., Moscow State U.; Quoc Phong Vu, Dr.Sc., Kharkov State U.; Thomas Wolf, Ph.D., U. of Wisconsin.

Assoc. Prof: Dinh Huynh, Dr.Sc., Martin Luther Universität; David Keck, Ph.D., Ohio State U.; Paul S. Malcom (emeritus, part-time), Ph.D., Ohio State U.; Xiaoping Shen, Ph.D., U. of Wisconsin-Milwaukee; James Shrey (part-time), Ph.D., Purdue U.; Vladimir Vinogradov, Ph.D., Moscow State U.; Todd Young, Ph.D., Georgia Institute of Technology.

Asst. Prof: Steven A. Chapin, Ph.D., Rutgers U.; Erick Todd Esworth, Ph.D., U. of Michigan; William E. Kaufman, Ph.D., U. of Houston; Robert Klein, Ph.D., Ohio State U.; Wei Lin, Clemson U.; Vardges Melkonian, Ph.D., Cornell U.; Martin J. Mohlenkamp, Ph.D., Yale U.; Laura J. Moss, Ph.D., U. of Texas; Tatiana Savin, Moscow State U.

Inst: Monica Hilverding, MA, Ohio State U.

Modern Languages

James S. Reid/Standard Products Co. Prof: Lois Vines, Ph.D., Georgetown U.

Prof: Richard Danner (emeritus, part-time), Ph.D., Indiana U.; Thomas Franz, Ph.D., U. of Kansas; Barry Thomas (emeritus, part-time), Ph.D., U. of California, Berkeley; Daniel Torres, Ph.D., U. of Cincinnati; Maureen Weissenrieder, Ph.D., Penn State U.

Assoc. Prof: David Burton, Ph.D., U. of Kentucky; R. Christopher Coski, Ph.D., U. of Maryland; Jose Delgado, Ph.D., U. of Virginia; Karen Evans-Romaine, Ph.D., U. of Michigan; Yolande Aline Helm, Ph.D., Pennsylvania State U.; Mary Jane Kelley, Ph.D., U. of Wisconsin; Emilia Marks, Ph.D., U. of Sevilla; Abelardo Moncayo-Andrade, Ph.D., U. of Maryland; Molly Morrison, Ph.D., Indiana U.; Ruth Nybakken (part-time), Ph.D., Columbia U.; Betsy Partyka, Ph.D., Oxford U.; Herta Rodina, Ph.D., Harvard U.; Fred Toner (chair), Ph.D., U. of Kansas; Jörg Waltje, Ph.D., U. of Colorado.

Asst. Prof: Maïke Ahrends, Ph.D., U. of Michigan; Vera Belousova, Ph.D., Moscow U.; Carole Cloutier, Ph.D., Georgetown U.; Dominique Duvert, Ph.D., U. of North Carolina; Signe Denbow, Ph.D., U. of Michigan; Amanda Harris, ABD, U. of Illinois at Urbana-Champaign; Nelson Hippolyte, Ph.D., U. of Pittsburgh; Arthur Hughes, Ph.D., U. of Arizona; Amado Lascar, Ph.D., U. of Oregon; Jeffrey Marks, Ph.D., U. of Sevilla; Klaus Plonien, Ph.D., U. of Minnesota; Nikhil Sathe, Ph.D., Ohio State U.

Instr: Kathleen Brown, B.A., U. of Chicago; Christophe Corbin, M.A., Ohio U.; Virginia Hojas, M.A., West Virginia U.; Maria Milano, M.A., Ohio State U.; Brigitte Moretti-Coski, M.A., U. of Maryland; Anne Porter, M.A., Middlebury College; Barbara Reichenbach, M.A., Kent State U.; Chrysty Rusch, M.A., U. of Michigan; Anne Scott, ABD, Penn State U.; Claudia Silvy, M.A., Bowling Green State U.; Annette Steigerwald, ABD, McGill U.; M.Litt., Oxford; Kerry Vaughan, M.A., Ohio U.; Josefina Williams, M.A., Ohio U.; Karin Wright, M.A., Ohio U.

Ohio Program of Intensive English

Lect: John Bagnole, M.A., Georgetown U.; Dawn Bikowski, M.A., Ohio U.; Linn Forhan, M.A., Ohio U.; Cynthia Holliday, M.A., SUNY, Albany; Greg Kessler, Ph.D., Ohio U.; Gerard Krzic (Assoc. Dir.),

Ph.D., Ohio U.; John McVicker, M.A., U. of Kansas; Charles Mickelson, M.A., Ohio U.

Philosophy

Trustee Prof: Charles J. Ping (president emeritus, part-time), Ph.D., Duke U.

Prof: John Bender, Ph.D., Harvard U.; Philip Ehrlich, Ph.D., U. of Illinois.

Assoc. Prof: Scott Carson, Ph.D., U. of North Carolina; James Petrik, Ph.D., Marquette U.; Arthur Zucker (chair), Ph.D., U. of Minnesota

Asst. Prof: Alyssa Bernstein, Ph.D., Harvard U.; Mark LeBar, Ph.D., U. of Arizona; Francis Longworth, Ph.D., U. of Pittsburgh (Philosophy), Imperial College, London (Earth Sciences); Alfred Lent, Ph.D., Ohio State U.; Wendy S. Parker, Ph.D., U. of Pittsburgh.

Physics and Astronomy

Dist. Prof: Steven M. Grimes, Ph.D., U. of Wisconsin; David A. Drabold, Washington U.

Prof: Char'otte Elster, Dr.rer.nat., U. of Bonn; Kenneth Hicks, Ph.D., U. of Colorado; David Ingram, Ph.D., Salford U.; Peter Jung, Ph.D., U. of Ulm; Martin Kordes, Ph.D., Case Western Reserve U.; Madappa Prakash, Ph.D., University of Bombay; Roger Rollins (emeritus, part-time), Ph.D., Cornell U.; Joseph Shields (chair), Ph.D., U. of California, Berkeley; Sergio Ulloa, Ph.D., SUNY, Buffalo; Louis Wright (emeritus, part-time), Ph.D., Duke U.

Assoc. Prof: Carl Brune, Ph.D., California Institute of Technology; Daniel S. Carman, Ph.D., Indiana U.; Alexander Govorov, Ph.D., Semiconductor Physics Inst., Novosibirsk; Ph.D., U. of Ulm; Saw Wai-Hla, Ph.D., U. of Ljubljana; Daniel Phillips, Ph.D., Flinders U. of South Australia; Arthur Smith, Ph.D., U. of Texas; Thomas S. Statler, Ph.D., Princeton U.

Asst. Prof: Markus Böttcher, Ph.D., U. of Bonn; Ido Braslavsky, Ph.D., Israel Institute of Technology; kimokc@ohio.edu Horacio Castillo, Ph.D., U. of Illinois; Paul King, Ph.D., College of William & Mary; Mark Lucas, Ph.D., U. of Illinois; Thomas Massey, Ph.D., U. of California Davis; Michael Moore, Ph.D., U. of Arizona; Alexander Neiman, Ph.D. Saratov State U.; Julia Roche, Ph.D., U. B. Pascal, France; Nancy Sandler, Ph.D., U. of Illinois; Eric Stinaff, Ph.D., Iowa State U.; David Tees, Ph.D., McGill U.

Political Science

Prof: Edward Baum (emeritus, part-time), Ph.D., U. of California, Los Angeles; David D. Dabelko (emeritus, part-time), Ph.D., U. of Illinois; Felix V. Gagliano (emeritus, part-time), Ph.D., U. of Illinois; John R. Gilliom, Ph.D., U. of Washington; Ronald J. Hunt (chair), Ph.D., Ohio State U.; Harold Molineu (emeritus, part-time), Ph.D., American U.; Michael J. Mumper (on leave to serve as Associate Provost of Graduate Studies), Ph.D., U. of Maryland; Patricia B. Richard (Trustee Professor and Dean Emerita, emerita, part-time), Ph.D., Syracuse U.; Joseph B. Tucker (emeritus, part-time), Ph.D., U. of Illinois; Thomas W. Walker (emeritus, part-time), Ph.D., U. of New Mexico; Mark L. Weinberg, Ph.D., U. of North Carolina; Susan Burgess, Ph.D., Notre Dame U.; Delysa Burnier, Judith Grant, Ph.D., Rutgers U.; Patricia Weitsman, Ph.D., Columbia U.; Lewis A. Randolph, Ph.D., Ohio State U.;

Assoc. Prof: Lisa M. Aubrey, Ph.D., Ohio State U.; Ph.D., U. of Illinois; Sung Ho Kim, Ph.D., Columbia U.; Nancy J. Manning, Ph.D., U. of Michigan; Takaaki Suzuki, Ph.D., Columbia U.; David L. Williams (emeritus, part-time) Ph.D., Columbia U.; Julie A. White, Ph.D., U. of Wisconsin, C. Ann Gordon, Ph.D., U. of Southern California; Michael Burton, Ph.D., SUNY, Albany, Judith L. Millesen, Ph.D., SUNY, Albany;

Asst. Prof: Michael Malley, Ph.D., U. of Wisconsin; James Mosher, Ph.D., U. of Wisconsin; Jay Eungba Ryu, Ph.D., U. of Georgia; David M. Shafie, Ph.D., U. of Southern California; Kathleen S. Sullivan, Ph.D., U. of Texas, Austin; Barry L. Tadlock, Ph.D., U. of Kentucky; Hector Perla, Ph.D., University of California; Myra Waterbury, Ph.D., New School for Social Research; Maria Fanis, Ph.D. University of Michigan.

Psychology

Trustee Prof: James Bruning (emeritus, part-time), Ph.D., U. of Iowa

Prof: Mark Alickie, Ph.D., U. of North Carolina; Margret Appel, Ph.D., U. of Denver; Jack Arbuthnot (emeritus, part-time), Ph.D., Cornell U.; Francis Bellezza, Ph.D., U. of Minnesota; Christopher France, Ph.D., McGill U.; John Garske, Ph.D., U. of California, Berkeley; Christine Gidycz, Ph.D., Kent State U.; Timothy Heckman, Ph.D., U. of Vermont; Kenneth Holroyd, Ph.D., U. of Miami; Harry Kotses (emeritus, part-time), Ph.D., Michigan State U.; G. Daniel Lassiter, Ph.D., U. of Virginia; John McNamara, Ph.D., U. of Georgia; Benjamin Ogles (Dean, College of Arts and Sciences), Ph.D., Brigham Young U.; Gary Schumacher (emeritus, part-time), Ph.D., Iowa State U.

Assoc. Prof: Timothy Anderson, Ph.D., Miami U.; Bruce Carlson (chair), Ph.D., U. of Michigan; Claudia Gonzalez-Vallejo, Ph.D., U. of North Carolina; David Johnson (emeritus, part-time), Ph.D., Ohio State U.; Danny Moates (emeritus, part-time), Ph.D., Vanderbilt U.; Stephen Patterson, Ph.D., Uniformed Services U. of the Health Sciences; Paula Popovich, Ph.D., Michigan State U.; Julie Suhr, Ph.D., U. of Iowa; Jeffrey B. Vancouver, Ph.D., Michigan State U.

Asst. Prof: Heather Alvarez, Ph.D., Virginia Polytechnic Institute & State U.; Emily Balcetus, Ph.D., Cornell University; Mary de Groot, Ph.D., U. of Rhode Island; Bernadette Heckman, Ph.D., Washington U.; Kathi Heffner, Ph.D., U. of Nevada; Sandra Hoyt, Ph.D., Miami of Ohio; Keith Markman, Ph.D., Indiana U.; Craig McCarthy, Ph.D., Ohio U.; Julie Sarno Owens, Ph.D., Purdue U.; Stephen Owens, Ph.D., Purdue U.; Gary Sarver, Ph.D., U. of Florida; Susan Tice-Alickie, Ph.D., Ohio U.

Instr.: Sally Weekley, M.A., Ohio U.

Social Work

Assoc. Prof: Karen Carlson, Ph.D., U. of Wisconsin, Madison; Miriam Clubok, (emeritus, part-time) M.S.W., Wayne State U.; Richard W. Greenlee, Ph.D., Ohio State U.; Susan Sarnoff, DSW, Adelphi U.

Asst. Prof: Robert H. Daugherty, Ph.D., U. of Louisville; Joan M. Doris, D.S.W., University of Pennsylvania; Sylvia Berman Hawranick, Ed.D., West Virginia U.; Mingun Lee, M.S.W., University of Albany, New York; Varsha Pandya, Ph.D., Case Western Reserve U.; Anne Sparks, Ph.D., Rutgers U.

Instr: Carole Alder, M.S.W., Ohio State U.; Freve Pace, M.S.W., Ohio State U.

Sociology and Anthropology

Prof: Elliot Abrams, Ph.D., Penn State U.; Leon Anderson, Ph.D., U. of Texas; AnnCorinne Freter-Abrams, Ph.D., Penn State U.; Lena Wright Myers, Ph.D., Michigan State U.; Martin Schwartz, Ph.D., U. of Kentucky; Robert Shelly, Ph.D., Michigan State U.; Alex Thio (emeritus, part-time), Ph.D., SUNY, Buffalo; Ann Tickamyer, (chair), Ph.D., U. of North Carolina.

Assoc. Prof: Eugene Ammarell, Ph.D., Yale U.; Cynthia Anderson, Ph.D., North Carolina State U.; Diane M. Clekawy, Ph.D., Columbia U.; Debra Henderson, Ph.D., Washington State U.; Bruce Kuhre (emeritus, part-time), Ph.D., Penn State U.; Jieli Li, Ph.D., U. of California, Riverside; Christine Mattley, Ph.D., Washington State U.; Don Shamblin (part-time), Ph.D., SUNY, Buffalo; Thomas Vander Ven, Ph.D., U. of Cincinnati.

Asst. Prof: Michelle Brown, Ph.D., Indiana U.; Ursula Castellano, Ph.D., U. of California, Davis; Joseph DeAngelis, Ph.D., New York U.; Haley Duschinski, Ph.D., Harvard U.; V. Aileen Hall (part-time), Ph.D., Kent State U.; Bruce Hoffman, Ph.D., U. of Washington; Edward Morris, Ph.D., U. of Texas; Stephen J. Scanlan, Ph.D., Ohio State U.; Nancy Taterek, Ph.D., Ohio State U.; Deborah Thorne, Ph.D., Washington State U.

College of Business

Accountancy

James E. Daley Professor: Ray G. Stephens (director), D.B.A., Harvard U.

O'Bleness Professor: Willie E. Gist, Ph.D., Texas A&M U.

Executive in Residence: Mont. C. Hollingsworth, M.S. Acct, Kent State U.; R. Budd Werner, B.S., Ohio U.

Prof: Glenn E. Corlett (dean), J.D., Ohio State U.; Leon B. Hoshower, Ph.D., Michigan State U.; E. James Meddaugh (emeritus, part-time), Ph.D., Penn State U.; David P. Kirch, Ph.D., Penn State U.

Assoc. Prof: Constance Esmond-Kiger, Ph.D., Indiana U.; Robert H.S. Sarikas, Ph.D., U. of Illinois at Urbana, Champaign; David L. Senteney, Ph.D., U. of Illinois at Urbana, Champaign; Toby Stock, Ph.D., Indiana U.

Asst. Prof: E. Ann Gabriel, Ph.D., Ohio State U.; Michael J. Meyer, D.B.A., Mississippi State U.

Inst: Jennifer A. Bagwell, M.T.A., U. of Alabama; Susanne C. Freeland, MT, Capital U.; Christine E. Kirch (part-time), M.B.A., U. of Nevada Las Vegas

Finance

O'Bleness Professor of Finance and Banking: Nanda Rangan, Ph.D., Texas A&M U.

Executive-in-Residence: Neil Holden, D.B.A., Indiana U.; David Payne, M.B.A., Indiana U.; John E. Reynolds, III, M.B.A., Wharton School, U. of Pennsylvania.

Prof: Ganas K. Rakes (emeritus, part-time), D.B.A., Washington U.; Roger M. Shelor, D.B.A., U. of Kentucky.

Assoc. Prof: Natalie M. Chieffe, D.B.A. Mississippi State U.; Dwight A. Pugh (emeritus, part-time), Ph.D., Ohio U.; Rajesh P. Narayanan, Ph.D., Indiana State U.; Andrew K. Prevost, Ph.D., Wayne State U.

Asst. Prof: Erik Devos, Ph.D., SUNY-Binghamton, H. Gregory Waller, Ph.D., Purdue U.

Inst: Scott B. Wright, M.B.A., Ohio U.; Katherine Keifer, M.S.A., U. of Virginia; Shirley G. Love, Ph.D., Texas A&M U.

Management Information Systems

O'Bleness Prof.: John Day, Ph.D., Ohio U.

Prof: Ted R. Compton (emeritus, part-time), Ph.D., U. of Cincinnati; Raymond Frost (chair), Ph.D., U. of Miami, Florida; Thomas G. Luce, Ph.D., Purdue U.; Hao Lou, Ph.D., U. of Houston; Wayne Huang, Ph.D., U. of Georgia

Assoc. Prof: David Sutherland, (emeritus, part-time), Ph.D., U. of Kansas.

Asst. Prof: Sean McGann, Ph.D., Case Western Reserve.

Executive-in-Residence: Tod Brokaw, M.B.A.; Ohio U.

Inst: Jeffery Anderson, M.B.A.; Ohio U.; Vic Matta, M.S., Ohio U.; Lauren Krewatch, M.B.A.; Ohio U.; Corrine Brown, Ph.D., Ohio U.

Management Systems

O'Bleness Prof.: John R. Schermerhorn, Jr., Ph.D., Northwestern U.; Debra Crown Core, Ph.D., U. of Colorado at Boulder.

Prof: Manjuli Koshal (emeritus, part-time), Ph.D., Patna U.; Arthur Marinelli (emeritus, part-time) J.D., Ohio State U.; John Stinson (emeritus, part-time), Ph.D., Ohio State U.; Aaron Kelley, Ph.D., U. of N. Texas; Mary Tucker, Ph.D., U. of New Orleans; Faizal Huq, Ph.D., U. of Kentucky

Assoc. Prof: Garth Coombs, Ph.D., U. of Colorado; Kenneth Cutright, (chair), Ph.D., West Virginia U.; Robert Holbrook, Jr., Ph.D., U. of Illinois; Mary Keifer, J.D., U. of Virginia; Clarence Martin, Ph.D., Carnegie Mellon U.; Bonnie Roach, Ph.D., Ohio State U.; Jessie Roberson, J.D., U. of Michigan; Rebecca A. Thacker, Ph.D., Texas A&M U.; Edward B. Yost (emeritus, part-time), Ph.D., Ohio State U.

Asst. Prof: William Lamb, Ph.D., Virginia Polytechnic Institute and State U.; Kevin Kennedy

Ph.D., Texas Tech U.; Amy Taylor-Bianco, Ph.D., Columbia U.; Patrick Kreiser, Ph.D., U. of Alabama; Katherine Marley, Ph.D., Ohio State U.

Lect: Pamela A. Boger, Ph.D., Ohio U.; John Keifer, J.D., U. of Virginia; Christine A. Yost, Ph.D., Ohio U.; Theresa Moran, Ph.D., The Fletcher School of Law and Diplomacy, MA.; Charles Adams, MS, Ohio U.

Inst: Laura Myers, J.D., Ohio State U.

Marketing

Executive-in-Residence: Kenneth L. Hartung, M.B.A., Ohio U.; David Payne, M.B.A., Indiana U.; JoAnna Williamson, M.B.A., The Ohio State U., J.D. Capital U.

Prof: Catherine N. Axinn, Ph.D., Michigan State U.; Ashok Gupta, Ph.D., Syracuse U.

Assoc. Prof: Mary Elizabeth Blair, Ph.D., U. of South Carolina; Dawn Deeter-Schmelz, Ph.D., U. of S. Florida; Timothy P. Hartman (emeritus, part-time), Ph.D., Ohio U.; Christopher Moberg, Ph.D., Cleveland State U.; Jane Z. Sojka, Ph.D., Washington State U.

Asst. Prof: Mark S. B. Fish, Ph.D., Texas Tech U.; Felicia N. Morgan, Ph.D., Arizona State U.

Instr: John Kiger, Ph.D., Indiana U.

Scripps College of Communication

Communication Systems Management

Prof: Phyllis W. Bernt, Ph.D., U. of Nebraska; Hans Kruse, Ph.D., Vanderbilt U.

Assoc. Prof: Philip Campbell, M.S., SUNY, Stony Brook; Andrew Snow (director), Ph.D., U. of Pittsburgh.

Asst. Prof: Anthony G. Mele, B.S., Ohio U.; John Hoag, Ph.D., Ohio State U.; Herbert Thompson, Ph.D., U. of Georgia; Yi-Feng Carol Ting, Ph.D., Michigan State U.; Lawrence E. Wood, Ph.D., Pennsylvania State U.

Communication Studies

Stocker Professor of Communication: William K. Rawlins, Ph.D., Temple U.

Prof: Roger Aden, Ph.D., U. of Nebraska; Christina Beck, Ph.D., U. of Oklahoma; Tom Daniels, Ph.D., Ohio U.; James W. Dearing, Ph.D., U. of Southern California; David Descutner, Ph.D., U. of Illinois; Elizabeth Graham, Ph.D., Kent State U.; Claudia Hale, Ph.D., U. of Illinois; Judith Yaross Lee, Ph.D., U. of Chicago; Raymie E. McKerrow, Ph.D., U. of Iowa; Gregory J. Shepherd (dean), Ph.D., U. of Illinois; Arvind Singhal, Ph.D., U. of Southern California.

Assoc. Prof: Ted Foster (emeritus, part-time), Ph.D., Ohio U.; Lynn Harter, Ph.D., U. of Nebraska; Anita James, Ph.D., U. of Southern California; Caryn E. Medved, Ph.D., U. of Kansas; Jerry L. Miller, Ph.D., U. of Oklahoma; Daniel P. Modaff, Ph.D., U. of Texas; Nagesh Rao, Ph.D., Michigan State U.; Jeff St. John, Ph.D., U. of Washington; John Smith, Ph.D., Wayne State U.; Scott Titsworth, Ph.D., U. of Nebraska.

Asst. Prof: Benjamin R. Bates, Ph.D., U. of Georgia; Derika Chawla, Ph.D., Purdue U.; R. Sam Larson, Ph.D., Michigan State U.; Brian Quick, Ph.D., Texas A&M U.; Daniel West (Cassese Director of Forensics), M.A., Texas State U.

Journalism

Scripps Howard Visiting Professional: To be announced.

Prof: Joe Bernt, Ph.D., U. of Nebraska; Anne Cooper-Chen, Ph.D., U. of North Carolina; Dru Riley Everts, Ph.D., Ohio U.; Marilyn Greenwald, Ph.D., Ohio State U.; Melvin Helitzer, B.A., Syracuse U.; Ralph Izard (emeritus, part-time), Ph.D., U. of Illinois; Daniel Riffe, Ph.D., U. of Tennessee; Robert Stewart, Ph.D., U. of Washington; Patrick Washburn, Ph.D., Indiana U.; Patricia Westfall, M.S., Columbia U.

Assoc. Prof: Bojinka Bishop, M.S., U. of Michigan; Eddith Dashiell, Ph.D., Indiana U.; Bernhard Debatin, Ph.D., Technical U., Berlin; Sandra Haggerty, B.S., Utah State U.; Thomas Hodges, M.S., South Dakota State U.; Thomas Hodson (director), J.D., Ohio State U.; Thomas Peters, M.B.A., Ohio U.; Ron Pittman, M.S., Marshall U.; Mary Rogus, M.B.A., U. of Kentucky; Jan S. Slater, Ph.D., Syracuse U.

Asst. Prof: Hong Cheng, Ph.D., Pennsylvania State U.; Orvil Patricia Cambridge, Ph.D., Ohio U.; Cary Frith, M.S., Ohio U.; Ellen Gerl, M.S.J., Ohio U.; Mark Leff, M.A., Ohio State U.; Bill Reader, M.A., Pennsylvania State U.; Carson B. Wagner, Ph.D., U. of Texas.

Visiting Professional: Deborah Gump, Ph.D., U. of North Carolina.

Asst. Instr: Douglas E. Nohl (part-time), B.S.C., Ohio U.

Telecommunications

Prof: Vibert Cambridge, Ph.D., Ohio U.; Don Flournoy, Ph.D., U. of Texas; W. Stephen Howard, Ph.D., Michigan State U.; Kathy A. Krendl (provost), Ph.D., U. of Michigan; Drew McDaniel, Ph.D., Ohio U.; David Mould, Ph.D., Ohio U.; Karen Riggs (director), Ph.D., Indiana U.; Josep Rota, Ph.D., Michigan State U.; Joseph Slade, Ph.D., New York U.

Assoc. Prof: Duncan Brown, Ph.D., U. of Illinois; Charles Cliff III (emeritus, part-time), Ph.D., Indiana U.; Mia Consalvo, Ph.D., U. of Iowa; Roger Cooper, Ph.D., Indiana U.; Arthur C. Cromwell, Ph.D., Ohio U.; Roger Good, M.A., Ohio U.; George Korn, Ph.D., Southern Illinois U.; Frederick Lewis, M.F.A., Brown U.; Jenny Nelson, Ph.D., Southern Illinois U.; Norma Pecora, Ph.D., U. of Illinois; Jeff Redefier, M.A., Ohio U.; Karin Sandell, Ph.D., U. of Iowa.

Asst. Prof: Pamela Chikombero, Ph.D., Kent State U.; Greg Newton, Ph.D., Indiana U.; Beth Novak, M.F.A., Ohio State U.; Eric Williams, M.F.A., Columbia U.; Lawrence E. Wood, Ph.D., Pennsylvania State U.

Instr: Eddie Ashworth, B.A., U. of California at Los Angeles; Keith Newman, M.F.A., Syracuse U.

Visual Communication

Prof: Terrill Eiler (director), M.F.A., Ohio U.; Marcia Nighswander, B.S.J., Bowling Green State U.

Assoc. Prof: Stanley Alost, M.A., Ohio U.; Gary Kirksey, M.A., Ohio U.; William R. Schneider, M.F.A., Ohio U.; Michael Williams, M.S.J., U. of Kansas.

Asst. Prof: Julie Elman, M.F.A., Ohio U.; Samuel Girtin, M.F.A., Ohio U.; Larry Hamel-Lambert, M.A., Ohio U.; Terence Oliver, M.A., Ohio U.

Visiting Professional: Bruce Strong, M.A., Ohio U.

College of Education

Counseling and Higher Education

Prof: Thomas Davis, Ph.D., Ohio State U.; Glenn Doston, Ph.D., Northwestern U.; Fred Dressel (emeritus, part-time), Ed.D., Indiana U.; Robert Young, Ph.D., U. of Illinois; Patricia Beamish, Ed.D., West Virginia U.

Assoc. Prof: Marc Cutright, Ed.D., U. of Tennessee; Gary Moden (part-time), Ph.D., U. of Missouri; Jerry Olsheski, Ph.D., Ohio State U.; Tracey Leinbaugh, Ph.D., U. of Idaho; Valerie Martin Conley, Ph.D., Virginia Polytechnic Institute; Dana Heller Levitt, Ph.D., U. of Virginia; Barbara Reeves (emeritus, part-time), Ed.D., U. of Kentucky.

Asst. Prof: Mona Robinson, Ph.D., Ohio State U.; Christine Bhat, Ph.D., Ohio U.; Peter Mather, Ph.D., The U. of Georgia; Yegan Pillay, Ph.D., Ohio U.

Educational Studies

Prof: Robert Barcikowski (emeritus, part-time), Ph.D., SUNY, Buffalo; Aimee Howley, Ed.D., West Virginia U.; George Johanson, Ed.D., U. of Massachusetts; Sandra Turner, Ph.D., U. of South Florida.

Assoc. Prof: Catherine Glascock, Ph.D., Louisiana State U.; Jaylynn Hutchinson, Ph.D., U. of Washington; Najee Muhammad, Ph.D., U. of Cincinnati; Adah Ward Randolph, Ph.D., Ohio State U.; Rosalie Romano, Ph.D., U. of Washington; Teresa Franklin, Ph.D., Ohio U.; Gordon Brooks, Ph.D., Ohio U.; Arlie Woodrum, Ed.D., Harvard U.

Asst. Prof: David Moore, Ph.D., U. of Virginia; Francis Godwyll, Ph.D., U. of Education Heidelberg Germany

Instr: Giles, Kay, M.A., Southern Illinois U.

Teacher Education

Prof: Dorothy Leal, Ph.D., U. of Kentucky; Ralph Martin, Ph.D., U. of Toledo; Joan McMath, Ph.D., U. of Akron; Ragy Mitos (emeritus, part-time), Ph.D., Ohio State U.; Joan Safran, Ph.D., U. of Virginia; Stephen Safran, Ph.D., U. of Virginia; Scott Sparks, Ph.D., U. of Florida; Ph.D.; Ginger Weade, Ph.D., Ohio State U.

Assoc. Prof: JoAnn Dugan, Ph.D., U. of Pittsburgh; Dianne Gut, Ph.D., U. of North Carolina; Sondra Rebotini (emeritus, part-time), Ed.D., West Virginia U.; Marta Roth, Ed.D., West Virginia U.; William Smith, Ed.D., Indiana U.; James Yanok (emeritus, part-time), Ph.D., Kent State U.; Guofang Wan, Ph.D., Penn State U.; Larry Jageman (emeritus, part-time), Ed.D., U. of Northern Colorado.

Asst. Prof: Frans Doppen, Ph.D., U. of Florida; Eun-Young Jung, Ph.D., U. of Illinois; David Bower, Ed.D., U. of New Mexico; Danielle Dani, Ed.D., U. of Cincinnati; Timothy McKenry, Ph.D., Ohio State U.

Visiting Prof: Suzanne Nichols, M.A., U. of Rio Grande.

Instr: Perrienne Bates, M.Ed., Ohio U.; Marcy Kennedy, M.Ed., Ohio U.; Karen Oswald, M.Ed., Ohio U.; Joette Weber, M.Ed., Ohio U.; Jen Malmberg, Ph.D., Ohio U.; Pamela Beam, M.Ed., Ohio U.; Maureen Coon, M. Ed. Ohio U.; Melinda Maher, Ph.D., West Virginia U.

Russ College of Engineering and Technology

Aviation

Prof: J. Anthony Sharp (chair), Ph.D., University of Miami

Asst. Prof: Deak M. Arch, M.A., Delta State U.; Ronald J. Faliszek, B.B.A., Ohio U.; Philip N. Ward, M.A., Webster U.

Chemical and Biomolecular Engineering

Prof: Kevin Crist, Ph.D., U. of Iowa; Douglas Goetz, Ph.D., Cornell U.; Srdjan Nestic, Ph.D., U. of Saskatchewan, Canada; Michael Prudich, Ph.D., West Virginia U.

Assoc. Prof: Gerardine Botte, Ph.D., U. of South Carolina. Wen-Jia Russell Chen, Ph.D., Syracuse U.; Tingyue Gu, Ph.D., Purdue U.; Daniel Gulino, Ph.D., U. of Illinois; Darin Ridgway, Ph.D., Florida State U.; Kendree Sampson (Associate Dean for Academics), Ph.D. Purdue U.; Valerie Young, (chair) Ph.D., Virginia Polytechnic Institute and State U.

Civil Engineering

Prof: Tiao Chang, Ph.D., Purdue U.; J. Ludwig Figueroa, Ph.D., U. of Illinois; Glenn Hazen (emeritus, part-time), Ph.D., Penn State U.; Gayle F. Mitchell (Neil D. Thomas Prof. and chair), Ph.D., Mississippi State U.; Shad M. Sargand (Russ Prof.), Ph.D., Virginia Polytechnic Institute and State U.

Assoc. Prof: Lloyd A. Herman, Ph.D., Vanderbilt U.; Sang-Soo Kim, Ph.D., Iowa State U.; Teruhisa Masada, Ph.D., Ohio U.; Eric P. Steinberg, Ph.D., Michigan Tech. U.; Ben J. Stuart, Ph.D., Rutgers U.

Asst. Prof: Michael D. Brown, Ph.D., U. of Texas; Lindsey Sebastian Bryson, Ph.D., Northwestern U.; Daniel Castro-Lacouture, Ph.D., Purdue U.; R. Guy Riefler, Ph.D., U. of Connecticut; James M. Thompson, Ph.D., Lehigh U.

Electrical Engineering and Computer Science

Prof: Michael Braasch (Thomas Prof.), Ph.D., Ohio U.; Angelia Buckley, Ph.D. (Visiting Professor) U. of Alabama, Huntsville; Jeffrey Dill, Ph.D., U. of Southern California; Herman Hill, Ph.D., West Virginia U.; R. Dennis Irwin (dean & Moss Prof of Engr. Ed.), Ph.D., Mississippi State U.; Robert Judd (chair, IMSE & Cooper Industries Prof.), Ph.D., Oakland U.; Henryk Lozykowski, Ph.D., N. Copernicus U.; Brian Manhire, Ph.D., Ohio State U.; Jerrel Mitchell (Cheng Prof.), Ph.D., Mississippi State U.; Roger Radcliff, Ph.D., West Virginia U.; Janusz Starzyk, Ph.D., Technical U., Warsaw; Frank van Graas (Russ Prof.), Ph.D., Ohio U.; Lonnie Welch (Stuckey Prof.), Ph.D., Ohio State U.; J. Jim Zhu, Ph.D., U. of Alabama.

Assoc. Prof: Chris Bartone, Ph.D., Ohio U.; Mehmet Celenk, Ph.D., Stevens Institute of Technology; David Chelberg, Ph.D., Stanford U.; Robert Curtis, Ph.D., New York U.; Jeffrey Giesey, Ph.D., U. of Michigan; John Gillam, Ph.D., Michigan State U.; David Juedes, Ph.D., Iowa State U.; Douglas Lawrence, Ph.D., Johns Hopkins U.; Cynthia Marling, Ph.D., Case Western Reserve U.; David Matolak, Ph.D., U. of Virginia; Maarten Uijt de Haag, Ph.D., Ohio U.; Shawn Ostermann, (chair) Ph.D., Purdue U.; Constantinos Vassiliadis, Ph.D., Mississippi State U.

Asst. Prof: Carl Bruggeman, Ph.D., Indiana U.; Frank Drews, Ph.D., Technical U. of Clausthal, Germany; Wojciech Jadowski, Ph.D., Ohio U., Torun, Poland; Savas Kaya, Ph.D., U. of London, Imperial College; Chang Liu, Ph.D., U. of California, Irvine; Jundong Liu, Ph.D., U. of Florida, Gainesville; Ralph Whaley, Ph.D., University of Maryland; Wenle Zhang, Ph.D., Ohio U.

Instr: William Austad, M.S., Ohio U.; John Dolan, M.S., Ohio U.; Mal Gunasekera, M.S., Ohio U.; Victor Hanna (part-time), M.S., Youngstown State U.; Ralph Kelsey, Ph.D., Ohio U.

Industrial and Manufacturing Systems Engineering

Prof: Robert P. Judd (Cooper Industries Prof. and chair), Ph.D., Oakland U.; Charles M. Parks, Ph.D., Oklahoma State U.; Helmut Zwahlen (emeritus, part-time, Russ Prof.), Ph.D., Ohio State U.; Gürsel A. Suer, Ph.D., Wichita State U.

Assoc. Prof: David A. Koonce, Ph.D., Louisiana State U.; Dale T. Masel, Ph.D., Penn State U.; Du-an N. _ormaz, Ph.D., U. of Southern California; Gary Weckman, Ph.D., U. of Cincinnati.

Asst. Prof: Diana J. Schwerha, Ph.D., West Virginia U.

Instr: Nihar Shah, M.S., Ohio U.

Industrial Technology

Prof: James F. Fales (emeritus, Loehr Prof.), Ed.D., Texas A&M; William W. Reeves (emeritus, part-time), Ed.D., U. of Kentucky; Timothy J. Sexton, Ph.D., Ohio U.

Assoc. Prof: John A. Deno (emeritus, part-time), Ph.D., Ohio State U.; Peter W. Klein (Kraft Family Scholar), Ph.D., Ohio U.; Patrick J. McCuiston, Ph.D., Texas A&M U.; Thomas E. Scott (Kraft Family Scholar), Ph.D., Ohio U.

Asst. Prof: Kevin Berisso, Ph.D., Indiana State U.; Todd D. Myers, M.B.A., Ohio U.; Mark R. Rowe, M.S., Ohio U.

Mechanical Engineering

Prof: Khairul Alam (Moss Prof.), Ph.D., California Institute of Technology; David Bayless, Ph.D., U. of Illinois; Gary Graham, Ph.D., Texas Tech U.; Jay Gunasekera (Moss Prof.), Ph.D., U. of London; Hajrudin Pasic, Ph.D., Stanford U.; T. Richard Robe (dean emeritus), Ph.D., Stanford U.; Robert L. Williams II, Ph.D., Virginia Polytechnic Institute and State U.

Assoc. Prof: Kenneth Halliday, Ph.D., U. of Massachusetts; Frank F. Kraft, Ph.D., Rensselaer Polytechnic Institute; Gregory G. Kremer, Ph.D., U. of Cincinnati; Bhavin Mehta, Ph.D., Ohio U.; Israel Urieli, Ph.D., U. of Witwatersrand.

Asst. Prof: Paul Bosscher, Ph.D., Georgia Institute of Technology; Carole Womeldorf, Ph.D., Johns Hopkins U.

College of Fine Arts

Art

Prof: Don Adleta, M.F.A., School of Design, Switzerland; Joseph Bova (part-time), M.A., U. of New Mexico; Carolyn Cardenas, M.F.A., Drake U.; Robert Lazuka (director), M.F.A., Arizona State U.; Mary Manusos (part-time), M.F.A., U. of Wisconsin; Charles McWeeny (dean), M.F.A., Oklahoma U.; Karen Nulf (emerita, part-time), M.A., Michigan State U.; Robert Peppers, M.F.A., Ohio U.; Brad Schwieger, M.F.A., Utah State U.; Arthur Werger, M.F.A., U. of Wisconsin; Daniel Williams (emeritus part-time), M.A., U. of Oregon.

Assoc. Prof: Marilyn Bradshaw, Ph.D., Indiana U.; Aethelred Eldridge, M.S.D., U. of Michigan; Karla Hackenmiller, M.F.A., U. of South Dakota; Michael Harper (part-time), Ph.D., U. of North Carolina; Joseph Lamb, Ph.D., U. of California, Santa Barbara; Duane McDiarmid, M.F.A., Florida State U.; Thomas Patin, Ph.D., U. of Washington; Marilyn Poepelmeyer, M.F.A., SUNY, Buffalo; Yoshitomo Saito, M.F.A., California College of Arts & Crafts.

Asst. Prof: Stacy Asher, M.F.A., California College of Arts & Crafts; Jodi Boatman, M.F.A., Cranbrook Academy of Art; Anne Burkhart, Ph.D., Ohio State U.; Alison Colman, Ph.D., Ohio State U.; Patricia Cue, M.F.A., Basel School of Design; Julie Dummermuth, M.F.A., San Francisco Art Institute; Jimmy Fike, Jr., M.F.A., Cranbrook Academy of Art; Matthew Friday, M.F.A., Indiana State U.; Melissa Haviland, M.F.A., U. of Nebraska, Lincoln; Alexandra Hibbitt, M.F.A., Alfred U.; Jeannette Klein, Ph.D., U. of Southern California; Laura Larson, M.F.A., Rutgers State U. of New Jersey; Marion Sung-Hua Lee, M.A., U. of California-Berkeley; John Sabraw, M.F.A., Northwestern U.

Dance

Prof: Michele Geller, M.F.A., New York U. School of the Arts; Madeleine Scott (director), M.A., U. of California, Los Angeles; Marina Walchi, M.F.A., Ohio U.

Assoc. Prof: Travis Gatling, M.F.A., Ohio State U.

Asst. Prof: Zelma Badu-Younge, Ph.D., McGill U.; Rubén Graciani, M.F.A., U. of Maryland; Tresa Randall, M.A., U. of New Mexico.

Film

Eminent Scholar in Film: Rajko Grlic, M.F.A., Famu Prague.

Prof: David O. Thomas, Ph.D., Southern Illinois U.

Assoc. Prof: Joseph Lamb (director), Ph.D., U. of California, Santa Barbara; Steven Ross, B.A., Wesleyan U..

Asst. Prof: D. Thomas Hayes, B.G.S., Ohio U.; Adam Knee, Ph.D., New York U.

Interdisciplinary Arts

Prof: William F. Condee (director), Ph.D., Columbia U.; Jessica Haigney (emerita, part-time), Ph.D., Ohio U.; Dora J. Wilson, Ph.D., U. of Southern California.

Assoc. Prof: Charles Buchanan, Ph.D., U. of California at Santa Barbara.

Asst. Prof: Vladimir Marchenkov, Ph.D., Ohio State U.; Marina Peterson, Ph.D., U. of Chicago.

Music

Prof: Ernest Bastin (emeritus, part-time), M.M., U. of Illinois; Gail Berenson, M.M., Northwestern U.; John Climer, D.M.A., U. of Missouri, Kansas City; Donna Conaty, M.M., Yale School of Music; Andre Gribou, M.M., Juilliard School of Music; Sylvia Reynolds Henry, Ph.D., U. of Kansas; Peter Jarjisan, D.M.A., U. of Wisconsin; Mark Phillips, D.M., Indiana U.; Allyn Reilly, Ph.D., Northwestern U.; Guy Remonko (emeritus, part-time), M.M., West Virginia U.; John Schlabach,

M.M., Northwestern U.; Richard Syracuse, M.S., Juilliard School of Music; Richard Wetzel, Ph.D., U. of Pittsburgh.

Assoc. Prof: Marjorie Bagley, M.M., Manhattan School of Music; Paul Barte, D.M.A., U. of Rochester; Roger Braun, M.M., Eastman School of Music; Dorothy Bryant, Ph.D., U. of Oklahoma; Milton Butler, Ph.D., U. of Arizona; Michael Carrera, D.M.A., Manhattan School of Music; Christopher Hayes, Ph.D., U. of Missouri-Columbia; Matthew James, M.M., U. of North Texas; Michael Kellogg (emeritus, part-time), M.M., Loyola U.; Patricia Pease, D.M.A., Florida State U.; Rebecca Rischin, D.M. Florida State U.; Alison Sincoff, M.M., U. of Nebraska, C. Scott Smith, M.M., Michigan State U.; Jason Smith, D.M.A., U. of Cincinnati; Anita Louise Steele, M.M.E., U. of Kansas; Richard Suk, Ed.D., U. of Illinois at Urbana-Champaign; Sylvester Young, Ph.D., U. of Missouri; Paschal Younge, Ed.D., West Virginia U.

Asst. Prof: Christopher Fisher, M.M., Wichita State U.; Michael Harley, M.M., U. of Cincinnati; Steven Huang, M.M., U. of Michigan; You-Seong Kim, M.M., Seoul National U.; Kamile O'Donnell, M.A., Texas Woman's U.; Elizabeth Sayrs, Ph.D., The Ohio State U.; Eric Stomberg, M.M., U. of Cincinnati.

Theater

Prof: Ursula Belden, M.F.A., Yale U.; Dennis Dalen (emeritus, part-time), M.A., U. of Kansas; Charles Smith, M.F.A., U. of Iowa; Robert L. Winters (emeritus, part-time), M.A., Michigan State U..

Assoc. Prof: Holly Cole, M.F.A., Carnegie Mellon U.; Daniel N. Denhart, M.F.A., Ohio U.; William Fisher, B.A., Indiana U.; Lonny S. Frazee (part-time), M.A., Penn State U.; Esaiba Irobi, Ph.D., U. of Leeds; Michael Lincoln, M.F.A., Brandeis U.; Laura Parrotti, M.A., SUNY, Binghamton; Robert St. Lawrence (director), M.A., U. of Pittsburgh; Jack Young, M.F.A., U. of Washington.

Asst. Prof: Dennis Delaney, M.F.A., Rutgers U.; Shelley Delaney, M.F.A., Rutgers U.; Kjersten Lester-Moratka, M.F.A., North Carolina School of the Arts; Gregory Lush, M.F.A., U. of Mississippi; Erik Ramsey, M.F.A., U. of Nevada.

College of Health and Human Services

Health Sciences

Prof: Matthew Adeyanju, Ph.D., U. of Illinois; Gari Lesnoff-Caravaglia, Ph.D., U. of California, Los Angeles.

Assoc. Prof: Douglas Bolon, Ph.D., Virginia Polytechnic Institute and State U.; Michele Morrone, Ph.D., Ohio State U.; Timothy Ryan, Ph.D., U. of Texas.

Asst. Prof: Tania Basta, MPH, Indiana U.; Helmut Paschold, Ph.D., U. of Texas at El Paso; Anthony Sallar, Ph.D., The U. of British Columbia; Alexander Sergeev, Ph.D., Smolensk U. School of Medicine; David Stretton, Ph.D., Ohio U.; Patricia Baasel Tillis (emerita, part-time), Ph.D., Ohio U.

Instr: Juli Miller (part-time) M.H.S.A., Ohio U.; Lisa Yehl, M.H.S.A., Ohio U.

Hearing, Speech and Language Sciences

Prof: Donald Fucci, Ph.D., (emeritus, part-time) Purdue U.; Norman Garber (emeritus, part-time), Ph.D., U. of Missouri; James W. Montgomery, Ph.D., Wichita State U.; Gary Neiman (dean), Ph.D., U. of Illinois.

Assoc. Prof: Brooke Hallowell (director), Ph.D., U. of Iowa, Ronald Isele (emeritus, part-time), M.A., Kent State U.; Sally A. Marinellie, Ph.D., U. of Illinois; Li Xu, M.D., Capital University of Medical Sciences, Beijing, China, Ph.D., U. of Florida College of Medicine.

Asst. Prof: Joann Benigno, Ph.D., U. of Florida, Emily Buckberry (emerita, part-time), M.A., Ohio U.; C. Richard Dean, Ph.D., (emeritus, part-time) Stanford U.; Jeffrey J. DiGiovanni, Ph.D., U. of Minnesota; Youngsun Kim, Ph.D., U. of Tennessee; Chao-Yang Lee, Ph.D., Brown U.; John McCarthy,

Ph.D., Penn State U.; Dennis T. Ries, Ph.D., U. of Minnesota.

Instr: Donna Bidlack, M.A., Bowling Green State U.; Kristi Kinnard, M.A., Ohio U.; Rebecca Meier, Au D., Pennsylvania College of Optometry; Marianne Malawista, Ph.D., Ohio U.; Davida Parsons, M.A. Ohio U.; Pam Reese, M.A., Indiana U.; Bloomington; Sarah Taylor, M.A., Bowling Green State U.; Janice M. Wright, M.A., Cleveland State U.

Human and Consumer Sciences

Prof: Margaret King, Ed.D., U. of Massachusetts; V. Ann Paulins (director), Ph.D., Ohio State U.

Assoc. Prof: Jennifer Chabot, Ph.D., Michigan State U.; Eugene Geist, Ph.D., U. of Alabama, Birmingham; Annette S. Graham, Ph.D., Penn State U.; David Holben, Ph.D., Ohio State U.; Gregory R. Janson, Ph.D., Ohio U.; J. David Matthews, M.Arch., Miami U.; Judy Matthews (emerita, part-time), Ph.D., Ohio State U.; Matthew Ziff, M. Arch., Virginia Polytechnic Institute and State U.

Asst. Prof: Darlene Berryman, Ph.D., Cornell U.; Robert G. Brannan, Ph.D., U. of Massachusetts; Jae-Eun Chung, Ph.D., Michigan State U.; Lee Cibrowski, Ph.D., Ohio State U.; Schuyler Cone, Ph.D., Ohio State U.; Grace A. Essex (part-time), M.S., Ohio U.; Diana Manchester (part-time), M.S., Ohio State U.; Margaret Manoochian Ph.D., Oregon State U.; Fang Meng, M.A., Beijing International Studies U.; Deborah H. Murray (part-time), M.S., Ohio U.; Michelle Price (part-time), M.F.A., Syracuse U.; Chiharu Uchida, Ph.D., Ohio State U.; Vincent S. Wojtas, M.F.A., Northwestern U.; Yingjiao Xu, Ph.D., Louisiana State U.

Instr: Francie Astrom (part-time), M.S., Northern Illinois U.

Nursing

Prof: Sharon Denham, D.S.N., U. of Alabama, Birmingham; Esperanza Joyce (director), Ed.D., Nova Southeastern U.; Kathleen Rose-Grippa, Ph.D., Stanford U.

Asst. Prof: Emily Harman (part-time), M.S.N., West Virginia U.; Sharon Mullen, Ph.D., Ohio U.; Carla Phillips, Ph.D., Ohio State U.; Therese Snively, Ph.D., Ohio State U.; Kathleen Tennant, Ph.D., Ohio U.

Physical Therapy

Assoc. Prof: Averell Overby (director), Dr. P.H., U. of Texas; James Thomas, Ph.D., U. of Illinois, Chicago.

Asst. Prof: Dennis Cade, Ph.D., Ohio U.; Rosalind S. Hickenbottom, Ph.D., Emory U.; Samuel Scott, Ph.D., U. of Kentucky; Betty Sindelar, Ph.D., U. of Washington; Petra Williams, M.S., Ohio State U.

Instr: Janice Howman, B.S., Bowling Green State U.

Recreation and Sport Sciences

Prof: Roger Gilders, Ph.D., Ohio U.; Ming Li, Ed.D., U. of Kansas; Sue Ellen Miller (emerita, part-time), P.E.D., Indiana U.

Assoc. Prof: David Carr, Ed.D., Virginia Tech U.; Tiff E. Cook (emeritus, part-time), Ph.D., Walden U.; Andrew Kreutzer, Ph.D., Ohio U.; Robin Mittelstaedt, Ph.D., U. of Oregon; Beth VanDerveer, Ph.D., Texas Woman's U.

Asst. Prof: Susan Bullard, Ph.D., U. of Wisconsin; Ronald Dingle (emeritus, part-time), M.S., U. of Massachusetts; Jennifer Hinton, Ph.D., Clemson U.; Rhonda Hovatter, M.S.P.E., Ohio U.; David Jacoby (emeritus, part-time), Ph.D., Ohio U.; Andrew Krause, Ph.D., Indiana State U.; Joyce King (emerita, part-time), Ph.D., Ohio State U.; Michael Kushnick, Ph.D., Florida State U.; Heather Morris, Ph.D., U. of Florida; Edward Potkanowicz, Ph.D., Kent State U.; Sharon Rana, Ph.D., U. of Nebraska; David Ridpath, Ed.D., West Virginia U.; Jeffrey Seegmiller, Ed.D., Illinois State U.; Ronald Whitaker (emeritus, part-time), M.Ed., Ohio U.; Kristi White, Ph.D., Ohio U.; Richard Woolson (emeritus, part-time), M.Ed., Ohio U.; Athena Yiamouyiannis, M.S., Ohio State U.

Instr: Trina Bookman (part-time), M.S.P.E., Ohio U.; Thomas Murray (part-time), M.S.P.E., Ohio U.; Sharon Noel (part-time), M.S.P.E., Ohio U.; Jill Wagner (part-time), M.Ed., Ohio State U.; Jason White (part-time), M.S., Ohio U.; Aaron Wright (part-time), M.B.A./M.S.A., Ohio U.

College of Osteopathic Medicine

Biomedical Sciences

Goll Ohio Eminent Research Scholar: John Kopchick, Ph.D., U. of Texas, Houston.

Distinguished Prof: Robert S. Hikida (part-time), Ph.D., U. of Illinois.

Distinguished Senior Scientist: Leonard Kohn, M.D., Columbia College of Physicians and Surgeons, New York.

Prof: Jack Blazky, Ph.D., Brown U.; Joseph T. Eastman, Ph.D., U. of Minnesota; Fredrick Hagerman (part-time), Ph.D., Ohio State U.; Frank Horodyski, Ph.D., U. of California, San Diego; Peter Johnson, Ph.D., U. of Birmingham; Joseph Jollick (part-time), Ph.D., West Virginia U.; William S. Romoser (part-time), Ph.D., Ohio State U.; Lawrence M. Witmer, Ph.D., Johns Hopkins U.

Assoc. Prof: Huzoor Akbar, Ph.D., Australian National U.; Charles Atkins (emeritus, part-time), Ph.D., North Carolina State U.; Mark Berryman, Ph.D., U. of Virginia; Bonita Biegalka, Ph.D., U. of Washington; Audrone Biknėvicius, Ph.D., Johns Hopkins U.; Xiao-Zhuo Chen, Ph.D., Ohio U.; Peter Coschigano, Ph.D., Massachusetts Institute of Technology; Kenneth Goodrum, Ph.D., U. of Texas; Mario Grijalva, Ph.D., Ohio U.; Marjorie Hagerman (part-time), Ph.D., Ohio U.; John Howell (part-time), Ph.D., U. of California, Los Angeles; Calvin B.L. James, Ph.D., Howard U.; Richard Klabunde, Ph.D., U. of Arizona; Felicia V. Nowak, M.D., Ph.D., Washington U. School of Medicine; Ronald Portanova (part-time), Ph.D., Case Western Reserve U.; Edwin C. Rowland (chair), Ph.D., Wake Forest U.; Robert S. Staron, Ph.D., Ohio U.; Leon C. Wince, Ph.D., West Virginia U.

Asst. Prof: Brian C. Clark, Ph.D., Syracuse U.; Rebecca A. Code, Ph.D. (part-time), U. of California, Berkeley; Karen T. Coschigano, Ph.D., Brandeis U. of MA; Sharon Inman, Ph.D., U. of Louisville; Yang Li, Ph.D., Southern Illinois U.; Ramiro Malgor, M.D., Universidad de Republica, Montevideo, Uruguay; Patrick O'Connor, Ph.D., SUNY, Stony Brook; Nancy Stevens, Ph.D., SUNY, Stony Brook; Susan H. Williams, Ph.D., Duke U.

Scientist I: Shigeru (Nick) Okada, Ph.D., Ohio U.

Instr: Mary K. Eastman, M.S., Ohio U.; Casey Holliday, Ph.D., Ohio U.

Department of Family Medicine

Prof: John A. Brose (dean), D.O., U. of North Texas/Texas College of Osteopathic Medicine; Anthony G. Chila, D.O., U. of Health Sciences, College of Osteopathic Medicine, Kansas City; Judith W. Rhue, Ph.D., Ohio U.

Assoc. Prof: David E. Brown (part-time), D.O., U. of Health Sciences, College of Osteopathic Medicine, Kansas City; William J. Burke (Doctors Hospital, Columbus), D.O., Ohio U. College of Osteopathic Medicine; Steven W. Clay, D.O., Kirksville College of Osteopathic Medicine; Peter B. Dane, D.O., Michigan State U., College of Osteopathic Medicine; William F. Duerfeldt, D.O., Kirksville College of Osteopathic Medicine; David C. Eland, D.O., Kirksville College of Osteopathic Medicine; Donald R. Furci, D.O., Philadelphia College of Osteopathic Medicine, Kirksville College of Osteopathic Medicine; Karl E. Harnish, D.O., Chicago College of Osteopathic Medicine; Donna M. Mabry (part-time), Ph.D., Ohio U.; Lenard G. Presutti, D.O., U. of Osteopathic Medicine and Health Sciences, Des Moines; Gerald Rubin, D.O., Philadelphia College of Osteopathic Medicine; Christopher Simpson (chair), D.O., Kirksville College of Osteopathic Medicine; David N. Stroh, D.O., Ohio U. College of Osteopathic Medicine.

Asst. Prof: Murray R. Berkowitz, D.O., U. of Osteopathic Medicine and Health Sciences/College of Osteopathic Medicine and Surgery, Des Moines,

Iowa; Kira Bacal, MD, Baylor College of Medicine; Janet Burns, D.O., Ohio U. College of Osteopathic Medicine; Andrea S. Clem, D.O., Chicago College of Osteopathic Medicine; Stephen S. Davis (part-time), Ph.D., Ohio State U.; Melinda E. Ford, D.O., Kirksville College of Osteopathic Medicine; Robert S. Gotfried, D.O., Philadelphia College of Osteopathic Medicine; Joy Matthews-Lopez (part-time), Ph.D., Ohio U.; Eduardo Robles, D.O., Ohio U. College of Osteopathic Medicine; Edward W. Schreck, D.O., Chicago College of Osteopathic Medicine; Jay H. Shubbrook, Jr., D.O., Ohio U. College of Osteopathic Medicine; Martha A. Simpson, D.O., Kirksville College of Osteopathic Medicine; Harold C. Thompson, III, D.O., Chicago College of Osteopathic Medicine; Linda B. Tomc (part-time), D.O., Ohio U. College of Osteopathic Medicine; Geraldine Urse (Doctor's Hospital, Columbus), D.O., Ohio U. College of Osteopathic Medicine; Nicole Wadsworth, D.O., Ohio U. College of Osteopathic Medicine.

Department of Geriatric Medicine/ Gerontology

Assoc. Prof: Allison J. Batchelor (part-time), M.D., Medical College of Ohio at Toledo; Wayne R. Carlsen (chair), D.O., U. of Medicine and Dentistry of New Jersey, School of Osteopathic Medicine.

Asst. Prof: Kelly Coon (part-time), D.O., Ohio U. College of Osteopathic Medicine; Jen-Tzer Gau, M.D., China Medical College; Tracy L. Marx, D.O., Ohio U. College of Osteopathic Medicine; Deborah Meyer (part-time), Ph.D., Ohio U.

Department of Obstetrics/ Gynecology

Assoc. Prof: Michael J. Clark (part-time), D.O., Kansas City College of Osteopathic Medicine; Jack M. Ramey (chair), D.O., U. of Health Sciences College of Osteopathic Medicine, Kansas City.

Asst. Prof: Jane Broecker (part-time), M.D., SUNY at Buffalo School of Medicine and Biomedical Sciences.

Department of Pediatrics

Prof: J. Phillip Jones (emeritus, part-time), D.O., U. of Health Sciences College of Osteopathic Medicine, Kansas City.

Assoc. Prof: C. Thomas Clark (chair), D.O., U. of Osteopathic Medicine and Health Sciences, Des Moines.

Asst. Prof.: Karen Montgomery-Reagan, D.O., West Virginia School of Osteopathic Medicine; Celeste Wallace, D.O., Ohio U. College of Osteopathic Medicine; Andrew Wapner, D.O., U. of Osteopathic Medicine and Health Sciences, Des Moines; Lori Woolson-Rutter, D.O., Ohio U. College of Osteopathic Medicine

Department of Social Medicine

Prof: Norman Gevitz (chair), Ph.D., U. of Chicago; Suzanne E. Hatty, Ph.D., U. of Sydney

Assoc. Prof: Gillian Ice, Ph.D., MPH, The Ohio State U., U. of Minnesota; Marjorie E. Nelson (emerita, part-time), M.D., MPH, Indiana U. School of Medicine, Yale U.; Jacqueline H. Wolf, Ph.D., U. of Illinois at Chicago; Robert M. Woodworth, D.O., MPH, Chicago College of Osteopathic Medicine, U. of Oklahoma Health Sciences Center.

Asst. Prof: Douglas D. Mann, Ph.D., Ohio U.; Karen Remsberg, Ph.D., MSPH, The U. of Pittsburgh, U. of South Carolina

Department of Specialty Medicine

Prof: Paul E. Cadamagnani, D.O., Chicago College of Osteopathic Medicine.

Assoc. Prof: Jeffrey S. Benseler (part-time), D.O., Kirksville College of Osteopathic Medicine; Steven G. Carin (chair), D.O., Philadelphia College of Osteopathic Medicine; Gary Cordingley (part-time), M.D., Duke U. Medical Center; James E. Foglesong, D.O., Kirksville College of Osteopathic Medicine; Scott A. Jenkinson, D.O., Ohio U. College of Osteopathic Medicine; James E. Sammons, Jr., D.O., Ohio U. College of Osteopathic Medicine; Frank L. Schwartz,

M.D., West Virginia School of Medicine; Michael W. Tomc, D.O., Ohio U. College of Osteopathic Medicine; Keith Watson, D.O., U. of North Texas/ Texas College of Osteopathic Medicine.

Asst. Prof: Janice R. Carrick (part-time), D.O., College of Osteopathic Medicine of the Pacific; Jeffrey F. McAdoo (part-time), M.D., Ohio State U. College of Medicine; Mark F. McGee (part-time), M.D., Ohio State U. College of Medicine; Steven Miller (part-time), M.D., U. of Cincinnati College of Medicine; Teferi G. Mengesha (part-time), M.D., U. of Cincinnati College of Medicine; Neal James Nesbitt (part-time), M.D., UCLA; Kendall Stewart (part-time), M.D., Medical College of Georgia; Nili Urieli (part-time), D.O., Ohio U. College of Osteopathic Medicine;

University College

Aerospace Studies

Prof: John Coulter, M.S. International Relations, Troy State University.

Asst. Prof: Alisa Thomas, M.A., Public Administration, U. of Wyoming; Jennifer Speight, M.S. Counseling, Montana State University.

Military Science

Prof: William A. Hauschild, M.S., Sports Science, Indiana U.; B.S., Management, U.S.M.A., West Point

Asst. Prof: Mark M. Dean, M.S., Ohio U.; James L. Ninnis, M.S., Oklahoma State U.; William J. Hurley, B.S., Liberal Arts, Regents College

Regional Higher Education Chillicothe Campus

Prof: Richard F. Bebee (dean, Accounting), Ph.D., U. of Colorado, Dennis Deane (Art/Photography), M.F.A., U. of North Carolina; Veena Kasbekar (English), Ph.D., U. of Cincinnati; Margaret McAdams (Art), M.F.A., Washington U.; John F. Reiger (History), Ph.D., Northwestern U.; Ronald Salomone (emeritus, part-time), (English), Ph.D., Indiana U.

Assoc. Prof.: Bobby Christian (part-time) (Physical Education), M.Ed., Ohio U.; Ronald S. Elliott (Computer Science), Ph.D., Ohio U.; David H. Gigley (emeritus, part-time) (Office Technology), M.Ed., U. of Cincinnati; David O. Harding (part-time) (Law Enforcement Technology), M.S., Eastern Kentucky U.; Lakhdar Hammoudi (Mathematics), Ph.D., U. of Haute-Alsace, Glenn R. Mackin (emeritus, part-time) (Political Science), M.A., Ohio U.; J. Stephen Phillips (Business Management Technology), Ed.D., U. of Cincinnati; Ruth Pontius (Zoology), Ph.D., Ohio State U.; Jan Schmittauer (English), Ph.D., Ohio State U.; Hamid Shahrestani (Economics), Ph.D., U. of Cincinnati; Christi Simmons (Business Management Technology), Ed.D., U. of Cincinnati; Barbara Trube (Early Childhood Education), Ed.D., U. of Texas at Austin; Arun C. Venkatachar (Physics), Ph.D., Northern Texas State U.; Lisa Wallace (Interpersonal Communication), Ph.D., Ohio U.; Richard A. Whinery (emeritus, part-time) (Human Services Technology), Ph.D., U. of Akron; Ruth Zajdel (Office Technology), M.Ed., U. of Cincinnati.

Asst. Prof.: Ken Breidenbaugh (Comparative Arts), Ph.D., Ohio U.; Shannon Brogan (Communication), Ph.D., Ohio U.; Thomas P. Brown (Business Management Technology), M.B.A., Ohio U.; Kathleen Davies (English), Ph.D., Ohio State U.; M.S., Ohio U.; Gary Elkin (part-time) (Law Enforcement Technology), M.S., Eastern Kentucky U.; Lisa Kauffman (Nursing), M.S.N., Wright State U.; Robert Knight (Mathematics), Ph.D., U. of California, San Diego; Richard Kowieski (Interpersonal Communication), Ph.D., Ohio U.; Michael Lafreniere (Hazardous Materials/ Environmental Engineering Technology), M.E., U. of Florida; Camille Leadingham (Nursing), M.S.N., Otterbein College; Barbara Mahaffey (Human Services Technology), M.Ed., Ohio U.; Cindy Matyi (Psychology), Ph.D., Ohio U.; J. Dale Maxey (Anthropology), Ph.D., Ohio State U.; James McKean (Law Enforcement Technology), M.A., Ohio State U.; Charlotte McManus (Nursing),

M.S.N., Wright State U., Charman Miller (Nursing), M.S.N., Otterbein College; Robert K. Moats, (Biological Sciences), Ph.D., U. of Illinois; Nirmal Niroula (Sociology), Ph.D., U. of Kentucky; Vicky Parker (Nursing), M.S.N., Wright State U.; Barbara Poole (Nursing), M.S.N., Case Western Reserve U.; Ann Rumble (Psychology), Ph.D., Washington State U.; Richard Sandy (Mathematics), M.S., Michigan State U.;

Instr: Sally Andersen (Geology), M.S., U. of California at Davis; Janet Duvall (Deaf Studies); Gary Haynes (Geography), M.A., Ohio U.; Ruth McClain (English), M.Ed., U. of Rio Grande; Joseph Reass (Law Enforcement Technology), B.A., Capital U.; Charlotte Souers (Nursing), M.S.N., Bellarmine College; Roger Smith (Chemistry), M.S., Ohio State U.; Deborah Zurmehly (Early Childhood Education), M.S., Ohio U.

Eastern Campus (St. Clairsville)

Prof: Paul E. Bibbins, Jr. (Dean) (Biomedical Sciences), Ph.D., Eastern Virginia Medical School/Old Dominion U.

Assoc. Prof.: Lawrence Bush (Mathematics), M.S., Ohio U.; James Casebolt (Psychology), Ph.D., U. of North Carolina, Tom Flynn (English), Ph.D., Ohio U.; Warren Galbreath (Social Work), Ph.D., Ohio State U.; Sarah Mahan-Hays (Interpersonal Communication), Ph.D., Ohio U.; Paula McMurray-Schwarz (Education), Ph.D., Ohio State U.; James Newton (Geography and Urban Planning), Ph.D., U. of North Carolina; George Anthony Peffer (Associate Dean) (History), D.A., Carnegie Mellon U.; John R. Prather, (Mathematics), Ph.D., U. of Kentucky; Mark Waters (Biology), Ph.D., U. of Tennessee; Kuruvilla Zachariah (Chemistry), Ph.D., Oklahoma State U.

Asst. Prof.: Susan Beisel (Education), Ed.D., U. of Tennessee; David Castle (History), Ph.D., U. of Oregon; Jennifer Diamond (English), Ph.D., U. of California San Diego; Zijian Diao (Mathematics), Ph.D., Texas A & M U.; Robert Galbreath (Exercise Physiology), Ph.D., U. of Pittsburgh; Joseph Hudak (Health and Sports Science), Ph.D., U. of Toledo; Kay Mansueto (emerita), (Botany), M.S., U. of South Carolina; Edie McClellan, (Psychology), Ph.D., West Virginia U.; Michael McTeague (emeritus) (History), M.A., Ohio U.; David Noble (English), Ph.D., Carnegie Mellon U.; Janice Proctor (Sociology), Ph.D., U. of Kansas; Kevin Spiker (Political Science), Ph.D., West Virginia U.; Christopher Stevens (Economics), Ph.D., Washington State U.; Kathleen vanVoorst (Computer Science), M.S., Northwest Missouri State U.; Jason Wrench (Communication Studies), Ed.D., West Virginia U.

Instructor: Andrew Butler (Exercise Physiology), M.S., West Virginia U.; Tom Doepken (Art), M.F.A., Ohio U.; Dennis Fox (Theater), M.A., Ohio State U.; Michael Kaiser (Guidance and Counseling), Ph.D., Ohio U.; Eileen McCormack (Communication), M.A., U. of Pittsburgh; David Miles (Comparative Arts), M.A., Northwest Missouri State U.; Lucien Murzyn (Health and Sports Science), M.Ed., U. of New Orleans; Daniel Stern (Sociology), M.A., U. of Pittsburgh; Sherri Theaker (Education), M.S., Youngstown State U.

Lancaster Campus

Prof: Kenneth Heineman (History) Ph.D., U. of Pittsburgh.

Assoc. Prof: Larry Ault (emeritus, part-time) (Economics), M.A., Ohio U.; Andrea Baker (Sociology), Ph.D., Case Western Reserve U.; Gary Baldwin (emeritus, part-time) (Mathematics), M.S., U. of Illinois; Janet Becker (Accounting Technology), M.B.A., U. of Pittsburgh; Qiuping Cao (Child Development), Ph.D., SUNY, Buffalo; Patrick Drumm (Psychology), Ph.D., Ohio State U.; Shun Endo (Art), M.F.A., Temple U.; Karen Evans (Interpersonal Communication), Ph.D., Southern Illinois U.; John Faulkner (English), Ph.D., Rutgers U.; Edward Fitzgibbon (History), Ph.D., Ohio State U.; Franco Guerriero (Mathematics), Ph.D., McMaster U.; Fred Herr (emeritus, part-time), (Accounting), M.S., Kent State U.; Brian Hoyt (Business Management Technology), M.B.A., Bryant School of Business; MaryAnn Janosik (dean) (History), Ph.D., Case Western Reserve U.; Helen Killoran, (English), Ph.D., U. of Washington;

Martha Kline (Chemistry), Ph.D., U. of North Carolina; Dennis Lupher (emeritus, part-time), (Economics), Ph.D., Ohio U.; Kaye Martin, (Early Childhood Education), Ph.D., Ohio State U.; Susan Maxwell (Medical Assisting Technology), M.A., U. of Kentucky; Zale Maxwell (Industrial Technology), M.Ed., Ohio U.; Alan Middleton (Business Management Technology), M.S., Virginia Commonwealth U.; Scott Minar (English), Ph.D., Ohio U.; Steve Nerney (part-time), (Physics), Ph.D., U. of Colorado; Stephen Noltie (Mathematics), Ph.D., U. of California, Riverside; William Stevens (Electronics Technology), Ph.D., Ohio U.; James Summerford (Philosophy), Ph.D., Ohio State U.; Candice Thomas-Maddox (Communication) Ph.D., West Virginia U.; Bari Watkins (History), Ph.D., Yale U.; Paul Yuckman (emeritus, part-time), (English), Ph.D., Ohio U.

Asst. Prof: Lawrence Burgess (Education), Ph.D., Ohio U.; Kathy Buxie (Mathematics), Ph.D., U. of Kansas; Joseph Faber (Biology), Ph.D., Case Western Reserve U.; Jeanne Galbraith (Early Childhood Education), Ph.D., Ohio State U.; Jane Johnsen (Education), Ph.D., Ohio State U.; Gary Lockwood (Engineering), M.S., Ohio State U.; Patrick Munhall (Psychology), Ph.D., Ohio U.; Linda Trautman (Political Science), Ph.D., Ohio State U.; Christine Wolfe (Computer Science Technology), M.S., Ohio State U.; Da Zhang (Computer Science Technology), Ed.D., Texas A&M U. at Commerce.

Instr: Dee Anderson (English), B.A., Ohio State U.; Cathleen Battiste Presutti (Mathematics), M.S., Rutgers U.; Arthur Bickham (Business Management Technology), M.B.A., Xavier U.; John Clay (Physical Education), B.G.S., Ohio U.; Terri Green (Education), M.A., Ohio State U.; Lisa Iacobellis (Art History), M.A., Ohio State U.; Pamela Kaylor (Communication Studies), Ph.D., Ohio U.; Mike Kelley (Computer Science Technology), M.A., Columbus State; Larry Lamb (Electronics Technology), M.S., Ohio U.; Larry McIlwee (Classical Languages), Ph.D., SUNY-Albany; Becky Parrish, (Mathematics), B.S., Ohio U.; Becky Saunders (Communication Studies and Hearing, Speech and Language Sciences), M.A., Ohio U.; Daniel Trout (Multimedia Technology), B.S., Ohio U.; Paul Young (Music), Ph.D., Ohio U.

Southern Campus (Ironton)

Assoc. Prof: Mikiko Crawford (Interpersonal Communication), Ph.D., Ohio U.; Lacey Stafford Curtis (Psychology), Ph.D., Ohio U.; Dan L. Evans (D.) (Higher Education), Ohio U.; Charles Jarrett (Sociology), Ph.D., Ohio State U.; David M. Lucas (Communication), Ph.D., Ohio U.; Rebecca F. McNeer (Associate Dean) (English), Ph.D., Ohio U.; Michael A. Millay (Botany), Ph.D., U. of Illinois.

Asst. Prof: Deerga Adhikari (Economics), Ph.D., U. of Oklahoma; Kristi Barnes (Psychology), Ph.D., West Virginia U.; Brad McCombs (Art), M.F.A., Carnegie Mellon U.; Ella McCown (Accounting Technology), M.B.A., C.P.A., Morehead State U.; Deborah Meehan (Nursing), M.S.N., Bellarmine College; Pradeep Mohanty (Computer Science Technology), M.S., North Dakota State University; Rose Roach (Nursing), M.S., San Jose State U.; Yehong Shao (Mathematics), Ph.D., West Virginia U.; Margaret Tevis (Nursing), M.S.N., Bellarmine College; Lacey Thompson (Comparative Arts), Ph.D., Ohio U.; Lynn Walsh (Education), Ed.D., Baylor U.

Instr: Rena Allen (part-time), (Education), M.A., Marshall U.; Donald Baker (Math/Electronic Technology), Ph.D., Ohio U.; Danny Bentley (part-time), (Biology), Ph.D., U. of Kentucky; Stephan D. Call (Travel and Tourism), M.S., Ashland U.; Anthony Brian Corea (Communications), M.S., Morehead State U.; Robert Culp (Chemistry), Ph.D., U. of Alabama; Bill Dingus (emeritus, part-time), (Business Administration), Ph.D., Ohio U.; Edward Duffy (part-time), (Sociology), Ph.D., Duke U.; Kelly Hall (Equine Studies), M.S., U. of Kentucky; Mashawna Hamilton (Nursing), B.S.N., Marshall U.; Steve Harvey (part-time), (Chemistry), M.A., Marshall U.; William Larson (part-time), (Education), Ph.D., Bowling Green State U.; Robert Leith (History), M.A., Union College; Connie Mays (Mathematics, Equine Studies), M.A., Marshall U.; Patrick McCoy (Comparative Arts/Music), Ph.D., Ohio U.; Donald L. Moore, (Telecommunications), M.A., Ohio U.; William Rau (Business), Ph.D., U. of

South Carolina; Kim Riley (Business Technologies), M.B.A., C.P.A., Morehead State U.; Janice Rosier (part-time), (Equine Studies), B.A., U. of Findlay; Ronald Sims (Psychology), M.S., Ohio U.; Terry Spivey (part-time), (Political Science), M.A., Ohio U.; David Surgalski, (Telecommunications), M.A., Ohio U.; Tom Suter (Fine Arts), M.A., Miami U.; Mary Tushman (Equine Studies), D.V.M., Tuskegee U.; Mary L. Virgin (Education Counseling), M.A., Morehead State U.

Zanesville Campus

Prof: Richard J. Brumbaugh (emeritus, part-time), (Chemistry), Ph.D., Ohio U.; James W. Fonseca (dean), (Geography), Ph.D., Clark U.; Deborah E. Henderson (Nursing), Ph.D., Ohio U.; James E. Jordan (emeritus, part-time), (Political Science), Ph.D., U. of Michigan; Mark A. Shatz (Psychology), Ph.D., U. of Florida; Vicki L. Sharrer (Nursing), M.S., Ohio State U.; Sheida Shirvani (Interpersonal Communication), Ph.D., North Texas State U.; Parinbam K. Thamburaj (Chemistry), Ph.D., Kent State U.; Gerald L. Westgerdes (Fine Arts), M.F.A., Otis Art Institute.

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Ohio Residency

It is the responsibility of the student to report a change of residency from an Ohio resident to a non-Ohio resident at the Office of Undergraduate Admissions.

If the student's residency has changed to an Ohio resident, s/he must file a residency petition with the Office of Undergraduate Admissions.

No change of residency can be made until the residency petition has been approved by the Residency Officer.

Questions concerning residency should be directed to the Residency Officer in the Office of Undergraduate Admissions.

The residency rules described below were adopted by the Ohio Board of Regents effective November 1, 1989. The rules are subject to change without notice by the Ohio Board of Regents or the Ohio General Assembly.

3333-1-10 OHIO STUDENT RESIDENCY FOR STATE SUBSIDY AND TUITION SURCHARGE PURPOSES

A. Intent and Authority

1. It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the State of Ohio primarily for the purpose of receiving the benefit of a state-supported education.
2. This rule is adopted pursuant to Chapter 119 of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.31 of the Revised Code.

B. Definitions

1. "Resident" shall mean any person who maintains a 12-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state public assistance, and who may be subjected to tax liability under Section 5747.02 of the Revised Code, provided such person has not within the time prescribed by this rule, declared himself or herself to be allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.
2. "Financial Support" as used in this rule, shall not include grants, scholarships and awards from persons or entities that are not related to the recipient.
3. An "institution of higher education" shall have the same meaning as "state institution of higher education" as that term is defined in Section 3345.011 of the Revised Code, and shall also include private medical and dental colleges that receive direct subsidy from the state of Ohio.
4. "Domicile" as used in this rule is a person's permanent place of abode, so long as the person has the legal ability under federal and state law to reside permanently at that abode. For the purposes of this rule, only one (1) domicile may be maintained at a given time.
5. "Dependent" shall mean a student who was claimed by at least one parent or guardian as a dependent on that person's Internal Revenue Service tax filing for the previous tax year.
6. "Residency Officer" means the person or persons at an institution of higher education that has the responsibility for determining residency of students under this rule.
7. "Community Service Position" shall mean a position volunteering or work for: (a) VISTA, AmeriCorps, City Year, the Peace Corps, or any similar program as determined by the Ohio Board of Regents; or (b) An elected or appointed public official for a period of time not exceeding 24 consecutive months.

C. Residency for Subsidy and Tuition Surcharge Purposes

The following persons shall be classified as residents of the State of Ohio for subsidy and tuition surcharge purposes:

1. A student whose spouse, or a dependent student, at least one of whose parents or a legal guardian, has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of the student in an institution of higher education.
2. A person who has been a resident of Ohio for all other legal purposes for at least 12 consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.
3. A dependent student of a parent or legal guardian, or the spouse of a person, who as of the first day of a term of enrollment, has accepted full-time self-sustaining employment and established domicile in the state of Ohio for reasons other than gaining the benefit of favorable tuition rates. Documentation of full-time employment and domicile shall include all of the following documents:
 - a. A sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent, legal guardian or spouse of the student is employed full-time in Ohio.
 - b. A copy of the lease under which the parent, legal guardian or spouse is the lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent, legal guardian or spouse is the owner and occupant; or if the parent, legal guardian or spouse is not the lessee or owner of the residence in which he or she has established domicile, a notarized letter from the owner of the residence certifying that the parent or spouse resides at that residence.
 - c. In addition to the above, a letter from the parent verifying the dependent status of the student.
4. Additional criteria which may be considered in determining residency for these purposes may include but are not limited to the following:
 1. Criteria evidencing residency:
 - a. If a person is subject to tax liability under Section 5747.02 of the Revised Code;
 - b. If a person qualifies to vote in Ohio;
 - c. If a person is eligible to receive Ohio public assistance;
 - d. If a person has an Ohio driver's license and/or Motor Vehicle Registration
 2. Criteria evidencing lack of residency:
 - a. If a person is a resident of or intends to be a resident of another state or nation for the purposes of tax liability, voting, receipt of public assistance, or student loan benefits (if the student qualified for that loan program by being a resident of that state or nation);

b. If a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of public assistance (see paragraph (D)(2)(a) of this rule).

3. For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, an individual's immigration status will not preclude an individual from obtaining resident status if that individual has the current legal status to remain permanently in the United States.

E. Exceptions to the General Rule of Residency for Subsidy and Tuition Surcharge Purposes

1. A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes.

2. A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.

3. A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.

4. A person who is transferred by his employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile and as long as such person has fulfilled his or her tax liability to the State of Ohio for at least the tax year preceding enrollment.

5. A person who has been employed as a migrant worker in the State of Ohio and his or her dependents shall be considered a resident for these purposes provided such a person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

6. A person who was considered a resident under this rule at the time the person started a community service position as defined under this rule, and his or her spouse and dependents, shall be considered residents of Ohio while in service and upon completion of service in the community service position.

7. A person who returns to the state of Ohio due to marital hardship, takes or has taken legal steps to end a marriage, and reestablishes financial dependence upon a parent or legal guardian (receives greater than 50% of his or her support from the parent or legal guardian), and his or her dependents shall be considered residents of Ohio.

8. A person who is a member of the Ohio National Guard and who is domiciled in Ohio, and his or her spouse and dependents, shall be considered residents of Ohio while the person is in Ohio National Guard service.

F. Procedures

1. A dependent person classified as a resident of Ohio for these purposes under the provisions of paragraph C(1) of this rule and who is enrolled in an institution of higher education when his or her parents or legal guardian remove their residency from the State of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.

2. In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of twelve months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraphs C(1) or C(2) of this rule.

3. For students who qualify for residency status under paragraph C(3) of this rule, residency status is lost immediately if the employed person upon whom resident student status was based accepts employment and establishes domicile outside Ohio less than 12 months after accepting employment and establishing domicile in Ohio.

4. Any person once classified as a non-resident, upon the completion of twelve consecutive months of residency, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident.

Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding twelve consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident.

Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of documentation regarding the sources of a student's actual financial support.

5. Any reclassification of a person who was once classified as a non-resident for these purposes shall have prospective application only from the date of such reclassification.

6. Any institution of higher education charged with reporting student enrollment to the Ohio Board of Regents for state subsidy purposes and assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of his or her Ohio residency for purposes of this rule. Such an institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

Revised by the Ohio Board of Regents on July 28, 2003.

Student Records Policy

Underlying Principles

Ohio University's commitment to its educational mission and to the students and society it is obligated to serve demands that it maintain various records. No education records will be maintained that are not directly related to the basic purposes of the University. All policies and practices governing the collection, maintenance, review, and release of records will be based upon the principles of confidentiality and the student's right to privacy, consistent with the Family Educational Rights and Privacy Act of 1974. This policy shall govern the collection, maintenance, review, and release of student records on the Athens and regional campuses of Ohio University. A student is herein defined to mean any person for whom the University maintains education records or personally identifiable information, but does not include a person who has not been in attendance at the University or any of its regional campuses.

Types of Records

The University recognizes two general types of records: education records and unofficial records.

A Education Records

Education records are those records which are directly related to a present or former student in any form (e.g., print, electronic, microfilm, etc.), which contain information directly related to a present or former student, and which are maintained by the University or by a person acting for the University. Education records shall be subject to the principles regarding collection, maintenance, review, and release which are described below.

Education records include, but are not limited to, the following:

- 1 Admissions records maintained by the Office of Admissions, the College of Osteopathic Medicine, and the Office of Graduate Student Services. The director of admissions, the dean of the College of Osteopathic Medicine, or the associate provost for graduate and research programs are the official custodians of these records;
- 2 Academic records maintained by the dean of the student's college; academic departments; the Registrar's Office; and the Office of Lifelong Learning. The registrar, the deans of the colleges, or the chairpersons of the departments are the official custodians of these records;
- 3 Disciplinary records maintained by the University Judiciaries. The director of Judiciaries is the official custodian of these records;
- 4 Financial aid and student employment records maintained by the Office of Student Financial Aid and Scholarships. The director of the Office of Student Financial Aid and Scholarships is the official custodian of these records;
- 5 Placement records maintained by the Office of Career Services. The director of Career Services is the official custodian of these records;
- 6 Housing records, including contract and lease agreements, maintained by the Housing Office. The director of Housing is the official custodian of these records;
- 7 Financial records by offices which initiate, collect, and record fees assessed and paid;
- 8 International student records. The director of International Student and Faculty Services is the custodian of these records;
- 9 Any and all other records not specifically designated as unofficial records under subsection b., maintained by a University office or agency as essential to fulfilling the basic purpose and responsibility of the office or agency. The University official responsible for that office or agency is the official custodian of these records.

B Unofficial Records

Unofficial records include:

- 1 Records of institutional, supervisory, and administrative personnel, and faculty and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible by or revealed to any other person except a substitute. A substitute means an individual who performs on a temporary basis the duties of the individual who made the record and does not refer to an individual who permanently succeeds the maker of the records in his or her position;
- 2 Records and documents of the Department of Campus Safety, provided that the records and documents are kept apart from the records described in subsection a. of this section, which are maintained solely for law enforcement purposes, and which are not available to persons other than law enforcement officials of the same jurisdiction or other University law enforcement personnel;
- 3 In the case of persons who are employed by the University but who are not in attendance, records made and maintained in the normal course of business which are related exclusively to such person in his or her capacity as an employee and which are not available for use for any other purpose;
- 4 Records which are created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity, and which are created, maintained, or used only in connection with the provision of treatment to the student, and which are not available to anyone other than persons providing such treatment; provided, however, that such records can be personally reviewed upon written notice by the student, by a physician, or by other appropriate professional of the student's choice;
- 5 Directory information—the following information will be considered public or directory information, and may be published in a University publication:
 - the student's name,
 - local and permanent addresses
 - local and permanent telephone numbers,
 - campus e-mail address,
 - date and place of birth,
 - current major program(s)
 - participation in officially recognized activities and sports,
 - weight and height of members of athletic teams,
 - dates of enrollment at Ohio University,
 - degrees and awards received from Ohio University, including dates and major programs,
 - the most recent previous educational agency or institution attended by the student,
 - student's "also known as" (AKA) name,

- student standing and degree level (first-year, undergraduate, second-year graduate, etc.),
- enrollment status (full-time, etc.), including total hours enrolled, by term
- primary advisor,
- expected graduation date,
- current college and campus,
- residency status (Ohio resident, out-of-state),
- admission status (new, continuing, etc.),
- record hold(s),
- deceased status,
- and other similar information.

The University shall give public notice of the categories of information that shall be considered public or directory information, and shall allow a reasonable period of time after such notice has been given for a student to inform the University, by filing a *Request for Confidentiality* with the registrar's office, that none of the information so designated should be released without the student's prior consent.

Maintenance of Records

Education records shall be maintained only by University administrative personnel assigned responsibility for each of the types of records listed in the Types of Records section above. All University personnel involved in the handling and maintenance of education records shall be instructed concerning the confidential nature of such information and their responsibilities regarding it, pursuant to this policy and the Family Educational Rights and Privacy Act of 1974. This instruction should be a part of each office's orientation procedure.

Persons Authorized to Place Materials in Records Files

Only the following qualified persons are permitted to place information in an education records file: personnel in the office or agency responsible for maintaining the files, and the individual student or others at the request of and, therefore, with the consent of the student.

Challenging or Removing File Contents

A student has the right to a formal hearing, pursuant to and in compliance with sections 99.20 through 99.22 of the Regulations to the Family Educational Rights and Privacy Act of 1974, to challenge the content of such student's education records in order to ensure that the records are not inaccurate, mis-leading, or otherwise in violation of the privacy or other rights of students, and to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained therein, and to insert into such records a written explanation respecting the content of such records.

However, the student shall first attempt to informally resolve his or her grievance through the department chair, dean of his or her college,

or, in the case of other records, through the administrative officer responsible for maintaining the records. The office responsible for maintaining the records may charge a reasonable fee, but not more than \$2 per page, for the reproduction of the records. The department chair, dean, or administrative officer, after careful review of the facts surrounding the challenge, shall inform the student, in writing and within five (5) days after the student presents the challenge, of his or her decision and any corrective action that will be taken.

If the student is dissatisfied with the results of his or her informal challenge through the department chair, dean, or administrative officer, he or she shall then file a formal complaint.

Student Access to Records

A student who is or has been in attendance at Ohio University shall have the right to inspect and review the contents of his or education records, subject only to reasonable arrangements concerning time, place, supervision, and cost of reproduction of the records, but in no case shall the time be more than thirty (30) days after a request has been made. Costs of each reproduction shall not be greater than \$2 per page. Exceptions to this general right of review are:

- a Confidential financial records of the student's parents or any information contained therein;
- b Confidential letters and statements of recommendation, which were placed in the education records prior to January 1, 1975, as long as such letters or statements are not used for purposes other than those for which they were specifically intended, as determined by the administrative officer responsible for the office or agency where the record is kept;
- c Unauthorized access to computer/electronic files;

d If the student has signed a waiver of the student's right of access under this section and the Family Educational Rights and Privacy Act of 1974, confidential recommendations respecting admission to any educational agency or institution, respecting an application for employment, or respecting the receipt of an honor or honorary recognition.

A student or a person applying for admission may waive his or her right of access to confidential statements described in subsection b. of this section, except that such waiver shall apply to recommendations only if the student is, upon request, notified of the names of all persons making confidential recommendations, and such recommendations are used solely for the purpose for which they were specifically intended. The student may revoke, in writing, the previous waiver of his or her right to access to confidential statements or recommendations. Such revocation shall only apply to confidential statements or recommendations placed in the record after the waiver has been revoked. Such waivers may not be required as a condition for admission to, receipt of financial aid from, or receipt of any other services or benefits from the University.

Release of Student Records

Student records at Ohio University are held in trust by the University for the mutual benefit of the student and the educational mission of the University. Therefore, except with the prior written consent of the student, or as otherwise stated below, no information in any student education record file may be released to any individuals or organization.

- a Record-keeping personnel may have access to student education records according to the conditions stipulated in the Maintenance of Records section above.
- b Members of the faculty and staff and other persons demonstrating a legitimate educational interest may have access to student education records for internal educational purposes or for necessary administrative and statistical purposes only. The legitimate educational interest will be

determined by the University official responsible for the particular student's education record. Legitimate educational interest is used here in its traditional and classical sense. It means that, in order to serve students and the University, careful, considerate, and responsible judgments must be made by professional people who are responsible and accountable for these judgments. The rights of grievance and appeal are available to the student through the responsible official.

c Direct access to financial, medical, psychological, and placement files is limited to the professional and clerical staff responsible for those matters.

d Directory information—please refer to Category B, "Unofficial Records," subsection 5, above.

e Direct access to disciplinary files is limited to the staff of the Office of Judicial Affairs and the Office of Legal Affairs, and the dean of students and his or her immediate staff. This section shall not be construed so as to prohibit the Office of Legal Affairs from advising appropriate University offices that demonstrate a legitimate educational interest in the facts and disposition of a particular disciplinary case, nor shall it be construed so as to prohibit the Office of Judicial Affairs from advising any person demonstrating a need to know as to whether a disciplinary file does or does not exist.

f Medical and psychological information is legally confidential and privileged. It will not be released to anyone without the express written authorization of the individual involved. In such cases, the individual must designate what information is to be released and to whom that information is to be released.

g Notwithstanding the provisions of subsections a-f of this section:

1 Education records will be released on compliance with a judicial order, or pursuant to any lawfully issued subpoena, upon condition that the student is reasonably notified of all such orders or subpoenas in advance of the compliance therewith by the University.

2 Records, or information from records containing personally identifiable information, may be made available to officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student be notified of the transfer, receive a copy of the records if desired, and has an opportunity for a hearing to challenge the content of the record.

3 Records or information from records containing personally identifiable information may be released in connection with a student's application for or receipt of financial aid.

4 Records or information from records may be released to the parents of a dependent student, as defined in Section 152 of the Internal Revenue Code of 1954. The University presumes for this purpose only that all students are independent. The parents of a student have the burden to show dependent status as defined in Section 152 of the Internal Revenue Code of 1954.

5 Records or information from records may be released to the categories of persons or institutions designated in Section 438(b)(1)(C), 438(b)(1)(E), and 439(b)(3) of the Family Educational Rights and Privacy Act of 1974, and sections 99.30(a)(2), and 99.31 through 99.36 of the regulations thereto.

6 Records or information from records may be released to organizations conducting studies for or on behalf of educational agencies or institutions for the purpose of developing, validating, or administering predictive tests; administering student aid programs; and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students and their parents by persons other than representatives of such organization, and such information will be destroyed when no longer needed for the purposes for which it was released.

7 Records or information from records may be released to accrediting organizations in order to carry out their accrediting functions.

8 Records or information from records may be released to appropriate persons if the knowledge of such information is necessary to protect the health or safety of the student or other persons.

9 The University officials responsible for implementing the Student Records Policy and ensuring compliance with the Family Educational Rights and Privacy Act of 1974 are the vice president for administration with the assistance of the dean of students and the director of legal affairs. The University ombudsman may examine all education records of a student upon authorization by the student or the director of legal affairs.

Record of Access

Each office shall keep with the education records of each student a record which will specifically indicate the legitimate interest that each such person, agency, or organization, other than other school officials and persons designated in the Release of Student Records section above, has in obtaining this information. Such record of access shall be available only to the student, the school official, and his or her assistants who are responsible for the custody of such records, and to persons or organizations authorized to conduct an audit pursuant to the Family Educational Rights and Privacy Act of 1974. The record should include the name of the individual or agency requesting information, reason for the request, date of the request, and the disposition of the request. The office responsible for the records shall, upon a request in writing by the student, provide a copy of the records disclosed and charge the appropriate fees therefore. Education records or information therefrom shall be transferred to a third party only on the condition that such party will not permit any other party to have access to such information without the written consent of the student.

Retention of Records

Each recordkeeping office will establish and make available a reasonable and justifiable policy regarding the retention of records after the separation of the student from the University. Where legal statutes govern retention, such policies shall be in accordance with those statutes.

Holds on Release of Records

Unmet University financial obligations or pending disciplinary cases may result in a hold being placed on the release of student records. The office originating the hold must inform the student in writing that it has initiated such action. Copies of hold notices will be maintained by the originating office or agency and will serve as verification that written notification has been provided to the student.

Incorporation of Federal Law

The Family Educational Rights and Privacy Act of 1974, and the regulations enacted in pursuance thereof, are hereby incorporated by reference into this policy, and to the extent that this policy conflicts with the law and/or regulations, the law and/or regulations shall take precedence.

Index

a

AAS (see African American Studies)
 Academic Advancement Center 39
 Academic advising 39
 Academic calendar 4-5
 Academic misconduct 32
 Academic probation 31-32
 Academic Progress
 College of Business 107
 College of Engineering and Technology 146
 Financial aid standards 20-21
 Student athletes 25
 Accounting 110, 231-232
 Accounting Technology 223, 232
 ACCT (see Accounting)
 Acting (Theater Performance) 181-182
 Actuarial Sciences 93-94
 Adding a class 26
 Admission 6
 Application deadlines 11
 Categories 6-8
 College of Arts and Sciences 59-60
 College of Communication 116
 College of Education 133-135
 College of Engineering and Technology 146-147
 College of Fine Arts 162
 College of Health and Human Services 185
 Honors Tutorial College 210
 Adolescent-Young Adult Education 140-141
 Adult Learning Services 220
 Adventure Recreation 206-207
 Advertising Management 124
 Aerospace Studies 217, 232-233
 African American Studies 65-66, 233-234
 African Studies 90
 AH (see Art History)
 ANTH (see Anthropology)
 Anthropology 66, 234-235
 Applied Mathematics 94
 Applied Music 303-304
 Applied Physics 97
 Archaeology, Classical 245
 Area Studies (see International Studies)
 Art 165-170, 235-237
 Art History 167, 237-238
 Arts and Sciences, College of 48, 50, 57-104

Asian Studies 90
 Associate's degrees 36, 214, 223-229
 AST (see Aerospace Studies)
 ASTR (see Astronomy)
 Astronomy 97, 310-311
 ATCH (see Accounting Technology)
 Athletic Training/Exercise Physiology 202-203, 316-317
 Athletics, Intercollegiate 43
 Attendance policy 27
 Audio Production 126
 Auditing classes 27
 Automobile registration (parking) 45
 Aviation 149-150, 238-239
 Aviation Technology 150-151
 AVN (see Aviation)

b

BA (see Business Administration)
 Bacteriology (see Microbiology)
 Baker University Center 47
 Behavior (see Biological Sciences or Psychology)
 Biochemistry 72
 BIOL (see Biology)
 BIOS (see Biological Sciences)
 Biological Sciences 67-71, 239-242
 Biology 242
 Biotechnology 79
 Black Studies (see African American Studies)
 BMT (see Business Management Technology)
 Broadcast News 124
 Business
 Administration 242
 College of 48, 51, 105-114
 Economics 110
 General 111
 International 111-112
 Law 242-243
 Management Technology 243
 Minor 112-113
 Prelaw 110
 Sales Certificate 113-114
 BUSL (see Business Law)

C

Calendar, academic 4-5
 Campus Recreation 45-46
 Campus Safety 45
 Career Services 40
 Campus Life 39-40
 Campus Visits 11
 Cartography (See Geography, Geographic Information Science)
 CE (See Civil Engineering)
 Cellular and Molecular Biology 68
 Cell Biology and Biotechnology 79
 Center for Community Service 37
 Center for International Studies 49, 218
 Ceramics 167-168, 235
 Certificate programs 55-56
 East Asian Studies 76
 Environmental Studies 81
 Geographic Information Science 84
 Gerontology 186
 Global Leadership Center 116-117, 278
 International Studies 91-92
 Italian Studies 92
 Political Communication 117
 Sales 113-114
 Women's Studies 103
 CHE (see Chemical Engineering)
 CHEM (see Chemistry)
 Chemical and Biomolecular Engineering 151-152, 258-259
 Chemistry and Biochemistry 71-74, 243-245
 Child and Family Studies 287-288
 Child Development 194
 Chillicothe campus 53, 221
 CHIN (see Chinese)
 Chinese 271
 Civil Engineering 152-153, 259-260
 CLAR (see Classical Archaeology)
 CLAS (see Classics in English)
 Class rank (student standing) 25
 Classical Archaeology 245
 Classical Civilization 75
 Classical Languages (see Classics)
 Classics and World Religions 74-76, 245-246
 Classics in English 245-246
 Clinical Laboratory Science 68
 College Adjustment Program (CAP) 39, 212
 College Level Examination Program (CLEP) 8

Colleges

Arts and Sciences 48, 50, 57-104
 Business 48, 51, 105-114
 Communication 48, 51, 115-130
 Education 48, 51, 131-145
 Engineering and Technology 48, 51-52, 146-161
 Fine Arts 49, 52, 162-183
 Health and Human Services 49, 52, 184-208
 Honors Tutorial 49, 52-53, 209-210
 Osteopathic Medicine 49
 University 49, 53, 211-217, 331-332
 Commencement 37
 Communication and Public Advocacy 120
 Communication, College of 48, 51, 115-130
 Communication Studies 117-120, 246-248
 Communication Systems Management 121-122, 248-249
 Community Health Services 187
 Community service programs 37
 Comparative Arts (see Interdisciplinary Arts)
 Composition (music) 176-177, 305
 Computer and Network Services 40
 Computer Science 153-155, 249-250
 Computer Science Technology 224, 250
 Computer Services 40-41
 COMS (see Communication Studies)
 COMT (see Communication Systems Management)
 Conservation Biology 70-71
 Continuing Education, Conferences, and Workshops 219-220
 Cooperative Education (Engineering and Technology) 148
 Counseling and Psychological Services 41
 Counselor Education 254
 Course load 25
 Creative Writing 77-78
 Credit
 Options for earning 8-9
 Transferring 9-10
 Criminal Justice 213
 Criminology 102
 CS (see Computer Science)
 CTCH (see Computer Science Tech.)
 Curriculum and Instruction (see Teacher Education)

d

Dance 170-172, 250-252
 Deaf Studies and Interpreting 224, 252
 Deans List 31
 Deficiency Points 31-32
 Dentistry, Prep for 70, 73-74
 Department Honors Programs 37
 Dietetics 196-197
 Diploma, replacement of 32-33
 Disability Services 41
 Dropping a class 26
 DSI (see Deaf Studies and Interpreting)
 DTCH (see Design Technology)

e

Early admission 8
 Early Childhood Education 136-137, 193-194, 255
 East Asian Studies Certificate 55, 76
 Eastern campus 53, 221
 ECED (see Economic Education)
 Ecology (see Environment, study of the; also see Wildlife and Conservation Biology or Marine, Freshwater, and Environmental Biology)
 Economics 76-77, 110, 252-254
 EDAD (see Educational Administration)
 EDCE (see Counselor Education)
 EDCI (see Teacher Education)
 EDEL (see Elementary Education)
 EDIC (see International and Comparative Education)
 EDM (see Educational Media)
 EDMC (see Middle Childhood Education)
 EDPL (see Professional Laboratory Experience)
 EDSE (see Secondary Education)
 EDSP (see Special Education)
 EDTE (see Teacher Education)
 Education
 Adolescent-Young Adult 140-141
 College of 48, 51, 131-145
 Dept. of Counseling and Higher Education 136
 Dept. of Educational Studies 136
 Dept. of Teacher Education 136, 254-255

Early Childhood 136-137, 193-194
 Educational Administration 255
 Educational Media 255
 International and Comparative 255
 Intervention Specialist 139
 Licensure 135
 Middle Childhood 137-138, 255-256
 Physical 145, 203-204, 317
 Professional Lab Experience 256
 Secondary 256
 Special 138-139, 257
 Student Teaching 133
 Education Abroad 37-38
 Educational Administration 255
 Educational Media 255
 EE (see Electrical Engineering)
 Electrical Engineering 155-157, 260-262
 Electronic Media 224-225, 257-258
 EM (see Electronic Media)
 Employment, student 17, 23
 Engineering and Technology,
 Russ College of 48, 51-52, 146-161
 Chemical and Biomolecular 151-152,
 258-259
 Civil 152-153, 259-260
 Computer Science 153-155, 249-250
 Electrical 155-157, 260-262
 Industrial and Systems 157-159, 262-263
 Industrial Technology 159-160,
 293-294
 Mechanical 160-161, 263-264
 and Technology 264-265
 ENG (see English)
 English 77-78, 265-267
 English as a Foreign Language (OPIE)
 (see also Linguistics) 308-309
 Enrollment 25-28
 Environment, Study of the 78
 Environmental and Occupational Health
 and Safety 187-188
 Environmental and Plant Biology 78-79,
 267-268
 Environmental Biology 69, 79-80
 Environmental Chemistry 73-74
 Environmental Engineering Technology
 225-226, 268-269
 Environmental Geography 82-83
 Environmental Geology 87
 Environmental Health 188, 189, 279
 Environmental Health and Safety 41
 Environmental Prelaw 83-84
 Environmental Studies Certificate 81
 EQU (see Equine Studies)
 Equine Studies 226, 269-270
 ET (see Engineering and Technology)

ETCH (see Electronics Technology)
 European Studies 90-91
 EVT (see Environmental Engineering
 Technology)
 Examinations, final 28
 Exercise Physiology 68, 204-205
 Experiential learning 8-9, 220
 Extension courses (see Independent
 Study)
 External Student Program 220

f

Family and Consumer Sciences
 Education 194-195
 Family Studies 195-196
 Fees 12-16
 Film 172-173, 270
 FIN (see Finance)
 Final examinations 28
 Finance 111, 270-271
 Financial aid 17-23
 Fine Arts, College of 49, 52, 162-183
 Food, Nutrition and Hospitality
 196, 288-289
 Foreign Languages and Literatures
 95-96, 271-272
 Chinese 271
 French 95, 144, 271-272
 German 95, 144, 272
 Greek 75, 272
 Indonesian/Malaysian 272
 Italian 273
 Japanese 273
 Latin 75, 273
 Russian 95, 274
 Spanish 95, 144, 274-275
 Swahili 275

Foreign Service, Prep for 77, 88, 98
 Forensic Chemistry 73
 FR (see French)
 French 95, 144, 271-272
 Freshwater Biology 69

g

General Business 111
 General Education Requirements 34-36
 Genetics (see Cellular and Molecular
 Biology)

Geographic Information Systems Analyst
 84-85
 Geography 82-86, 275-276
 Geological Sciences 86-87, 277-278
 GER (see German)
 German 95, 144, 272
 Gerontology Certificate 56, 186
 GK (see Greek)
 Global Leadership Center 116-117, 278
 Grade-point average 28-29
 Grading 28-31
 Graduate program, early admission 28
 Graduate Studies 49
 Graduation 36-37
 Graduation requirements
 College of Arts and Sciences 60-64
 College of Business 107-110
 College of Communication 116
 College of Education 135
 College of Engineering and
 Technology 147-148
 College of Fine Arts 163-165
 College of Health and Human
 Services 185
 Honors Tutorial College 210
 University-wide 34-36
 Grants 22
 Graphic Design 168, 236
 Greek 75, 272

h

Harassment 42-43
 Hazardous Materials Technology
 226, 279
 HCCF (see Child and Family Studies)
 HCFN (see Food and Nutrition)
 HCGE (see Human and Consumer
 Sciences)
 HCID (see Interior Design)
 HCRM (see Retail Merchandising)
 Health Administration 189-190
 Health and Human Services 279
 Health and Human Services,
 College of 49, 52, 184-208
 Health Care Administration,
 Long-Term 190
 Health Communication 119-120
 Health Sciences 187-190, 279-281
 Health Service, Student 41
 Health Services Administration 189-190

Hearing, Speech and Language Clinic 41-42

Hearing, Speech and Language Sciences 190-191, 281-282

History 88, 282-287

HLTH (see Health Sciences)

HMT (see Hazardous Materials Tech)

Honor, graduating with 37

Honor societies 40, 105

Honors programs, departmental 37
(See also individual departmental listings)

Honors Tutorial College 49, 52-53, 209-210

Housing 42

HRM (see Human Resource Management)

HS (see Health and Human Services)

HSLs (see Hearing, Speech and Language Sciences)

HST (see Human Services Technology)

HUM (see Humanities)

Human and Consumer Sciences 191-208, 287-292

Human Resource Management III, 292

Human Services Technology 226-227, 292

Humanities 267

I

Identification card 24

IH (see Industrial Hygiene)

IMT (see Industrial Maintenance Technology)

In absentia degree 36, 61

INCO (see Communication Studies)

Independent Study 219-220

Individualized Studies 216

INDO (see Indonesian/Malaysian)

Indonesian/Malaysian 272

Industrial and Systems Engineering 157-159, 262-263

Industrial Hygiene 188-189, 281

Industrial Maintenance Technology 227, 292-293

Industrial Technology 159-160, 293-294

Informational Graphics/Publication Design 130

INST (see International Studies)

Institutional Equity 42-43

Insurance, medical 43

Interactive Multimedia 130

Intercollegiate Athletics 43

Interdisciplinary Arts 173-174, 294-295

Interior Architecture 198-199, 290-291

International Baccalaureate (IB) 8

International and Comparative Education 255

International Business III-112

International Literatures in English 272-275

International Student and Faculty Services 43-44

International Studies 89-91, 295

International Studies Certificate 91-92

International Studies, Center for 218

International Exchange (see Education Abroad)

Interpersonal Communication (see Communication Studies)

Intervention Specialist Education 139

Intramural sports 46

ISE (see Industrial and Systems Engineering)

IT (see Industrial Technology)

ITAL (see Italian)

Italian 273

Italian Studies Certificate 56, 92

J

JPN (see Japanese)

Japanese 273

Journalism 122-125, 295-297

L

Lancaster campus 53, 222

Language Arts Education 142

Languages, Foreign (see Foreign Languages and Literatures)

LAT (see Latin)

Late registration 14, 24

Latin 75, 273

Latin American Studies 91

Law Enforcement Technology 227-228, 297

Law, Prep for 78, 83, 88, 92, 96, 99, 102, 110, 118

Learning communities 38, 212

LET (see Law Enforcement Technology)

Libraries 44

Licensure, teacher 135

Lifelong Learning 49, 219-220

Linguistics 92-93, 297-298

Linked courses 38

Loans 17, 18, 22-23

Long-Term Health Care Administration 190

m

Magazine Journalism 124

Major
 Declaring 25
 Changing 25
 Codes 50-53

Malaysian/Indonesian 272

Management 298-299
 Business 112, 243
 Recreation 208
 Telecommunications 126-127
 Theater 182

Management Information Systems 112, 299-300

Marine Biology 69

Marketing 112, 299-300

MAT (See Medical Assisting Technology)

Materials Management Technology 300

Mathematics 93-95, 142, 300-302

ME (see Mechanical Engineering)

Mechanical Engineering 160-161, 263-264

Media Studies 127

Medical Assisting Technology 228, 302

Medical Technology 68

Medical insurance 43

Medical requirements, enrollment II

Medical services (see Student Health Service)

Medicine, Prep for 70, 74

Meteorology, Prep for 85, 94, 98

MGT (see Management)

Microbiology 69-70

Middle Childhood Education 137-138, 255-256

Military Science 217, 302-303

Minors 54

African American Studies 65-66

Anthropology 66

Art 170

Astronomy 97

Biological Sciences 67

Business 112-113

Chemistry 72

Classical Civilization 75

Communication Studies 120

Dance 171-172

Economics 77

English 78

Film 173

French 96

Geography 82

Geological Sciences 87

German 96

Greek 75

Hearing, Speech and Language
Sciences 191

History 88

Interdisciplinary Arts 174

Latin 75

Linguistics 93

Mathematics 93

Music 180

Nutrition, Basic and Applied 198

Philosophy 96

Physics 97

Plant Biology 79

Political Science 98

Psychology 100

Recreation 208

Retail Merchandising 200

Russian 96

Social Services 101

Sociology 102

Spanish 96

Telecommunications 127

Theater 183

MIS (see Management Information
Systems)

Misconduct, academic 32

Mission statement, Ohio University 2

MKT (see Marketing)

ML (see Modern Languages)

MMT (see Materials Management
Technology)Modern Languages (see also Foreign
Languages and Literatures) 95-96, 144

Modern Languages Education 144

MSC (see Military Science)

MTCH (see Manufacturing Technology)

Multicultural Programs 44-45

Multimedia, Interactive 130

Music 174-180, 303-306

History and Literature 177-178, 305

Music Education 178-179, 304-305

Performance (Applied) 174-175,
303-304

Theory and Composition 176-177, 305

Therapy 179-180, 305-306

n

Neuroscience 68

News Writing and Editing 124

Nondegree student 8

NRSE (see Nursing, Baccalaureate)

NURS (see Nursing, Associate's)

Nursing

Associate's 228-229, 306

Baccalaureate 200-201, 306-307

School Nurse 201

Nutrition, Basic and Applied minor 198

Nutrition with Science (Biological
Sciences) 197-198

O

Oceanography (see Marine, Freshwater
and Environmental Biology)Office of Nationally Competitive
Awards (ONCA) 38

Office Technology 229, 307-308

Ohio Program of Intensive English
(OPIE) 308-309

Ohio residency guidelines 12, 342-343

Ombuds 45

Online Journalism 124

Operations 309

OPN (see Operations)

Optometry, Prep for 70

Orchestral Instruments 176

Organ 175-176

Organizational Communication 119

Organizations, student 40

Osteopathic Medicine, College of 49

OTEC (see Office Technology)

Outdoor Education and Camping 207

p

Painting 168-169, 236

Parking 45

Payment of fees 14-16

PBIO (see Environmental and Plant
Biology)

Peace Corps 218

PED (see Physical Education Activity)

Personal information, updating 24-25

PESS (see Physical Education and Sport
Sciences)

Pharmacy, Prep for 74

Philosophy 96, 309-310

(note: some courses previously listed as PHIL
courses are now classified as Classics and
World Religions courses)

Photo Journalism 130

Photography 169, 236

PHYS (see Physics)

Physical Education 145, 203-204,
317-319

Physical Science 311

Physical Therapy 201-202, 310

Physical Therapy, Prep for 70, 96, 100
(see also Exercise Physiology)

Physics 97-98, 311-312

Piano 174-175

Plant Biology 78-81

Playwriting 182

POCO (see Political Communication)

Police, University 45

Political Communication 98, 117, 312

Political Communication Certificate
56, 98, 117

Political Science 98-99, 312-314

POLS (see Political Science)

PRCM (see Professional Communication)

Pre-Astronomy 97

Precollege Orientation 24, 212

Pre-dentistry 73-74
(see also Pre-professional Studies)

Pre-Exercise Physiology 68

Pre-Foreign Service 77, 88, 98

Prelaw 78, 83, 88, 92, 96, 99, 102,
110, 118

Premedicine 74

(see also Pre-professional Studies;
Nutrition with Science)

Premeteorology 85, 94, 98

Pre-Optometry (see Pre-professional Studies)

Prepharmacy 74

Pre-Physical Therapy 70, 96, 100
(see also Pre-professional Studies)

Pre-professional Studies 70

Prerequisites 230

Pretheology 78, 88, 96

Pre-Veterinary Medicine
(see Pre-professional Studies)

Printmaking 169, 236

Probation, academic 31-32

Production Design and Technology
(Theater) 182-183

Professional Communication 314

Professional Lab Experience (Educ.)
236

Provost's Undergraduate Research Fund
38

PSC (see Physical Science)

PSY (see Psychology)

Psychological Services and Counseling 41

Psychology 99-101, 314-315

PT (see Physical Therapy)

Public Policy and Administration 99

Public Relations 124-125

q

QBA (see Quantitative Business Analysis)

Quantitative Business Analysis 315

r

REAL (see Real Estate Technology)

Real Estate Technology 316

REC (See Recreation Studies)

Records, student 32, 344-345

Recreation and Sport Sciences,
School of 202-208, 316-321
Athletic Training 202-203, 316-317
Physical Education and Sport Science
317-319
Recreation Studies 206, 319-320

Recreation, Campus 45-46

Re-enrolling student 8, 29

Refund of fees 14-15, 19-20

Refund/repayment of financial aid
19-20

Regional campuses 49, 53, 221-229

Registrar 46

Registration 24-25
Cancelling 26
Fees 12-16

Religion (see Theology, Prep for)

Relocating student 8

Replacement of diploma 32-33

Research Fund (See Provost's
Undergraduate Research Fund)

Reserve Officers Training Corps (ROTC)
217, 232-233, 302-303

Residence Life 46-47

Residence requirements for
graduation 36

Residency guidelines, Ohio 12, 342-343

Retail Merchandising 199-200, 291-292

Retaking a course 29

Restaurant, Hotel, and Tourism 197

ROTC (see Reserve Officers Training
Corps)

RSAT (see Athletic Training)

RUS (see Russian)

Russian 95, 274

S

Safety, Campus (see Police, University)

Sales Certificate 56, 113-114

Satisfactory Academic Progress 20-21

Schedule changes 25-26

Scholarships 17, 18-22, 116, 148, 163, 185,
189

School Nurse Program 200-201

Science Education 141, 142, 143-144

Sculpture 170, 236-237

Secondary Education 256

Segmented transcript 29

Services for students 23, 39-47

Sexual harassment 42-43

Social Services minor 101

Social Studies Education 143

Social Work 101, 321-322

Sociology 101-102, 322-323

Southern campus 53, 222

Spanish 95, 144, 274-275

Special Education 138-139, 257

Specialized Studies 213-214, 323

Speech and Hearing Clinic 41-42

Sport
Campus Recreation 45-46
Management 205-206, 320-321
Intercollegiate athletics 43
Sciences 202-208

Student organizations 40

Student records 32-33, 344-345

Student Senate 47

Student services 39-47

Study abroad 37-38, 64, 89, 95, 106,
218

Study skills (Acad. Adv. Ctr.) 39

Summer Sessions 220

SW (see Social Work)

SWAH (see Swahili)

Swahili 275

t

TAT (see Travel and Tourism)

TCOM (see Telecommunications)

Teacher Education 136, 254

Teacher licensure 135

Technical and Applied Studies 222-223,
323

TEFL Module (See Linguistics)

Telecommunications 125-128, 323-325

Telephone numbers 3

THAR (see Theater)

Theater 180-183, 325-327

Theater Performance 181-182

Theology, Prep for 78, 88, 96

Theory (music) 176-177, 305

Tier III courses 327-331

Tier requirements 34-36

Transcripts 32
Segmented 29

Transfer
Application 7
Module 9
Credit 9
From one college to another 25
Into College of Arts and Sciences
59-60
Into College of Business 106-107
Into College of Communication 116
Into College of Eng. and Tech. 146-147

Travel and Tourism 229, 331

Tutoring (Academic Adv. Center) 39

Two-hour rule (attendance) 27

U

UC (see University College)
 University College 49, 53, 211–217, 331–332
 University Professor 212–213, 332
 University-Wide Academic
 Opportunities 37–38
 UP (see University Professor)
 Updating personal information 24–25
 Urban Planning 85–86

WS (see Women's Studies)

World Religions (see Classics and
 World Religions)

Z

Zanesville campus 53, 222
 Zoology (see Wildlife and Conservation
 Biology)

V

Veterans benefits 25
 Veterinary Medicine, Prep for 70
 VICO (see Visual Communication)
 Video Production 129
 Virology (see Microbiology)
 Visiting privilege 28
 Visitors center 11
 Visual Communication 128–130, 332–333
 Voice (music) 175

W

Wildlife and Conservation Biology 71
 Withdrawal 16, 26–27
 Women's Studies 103–104, 333
 Women's Studies Certificate 56, 103



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